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OF
DENTAL SURGERY

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DENTAL SCHOOL
UNIVERSITY OF MARYLAND



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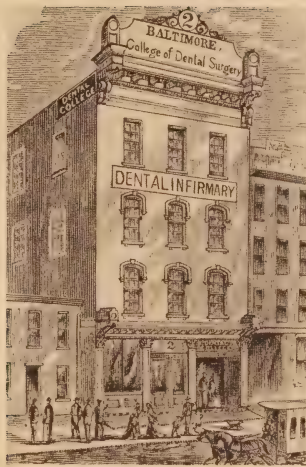
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The building was located at 2 North Greene Street.

FURTHER STUDIES ON ZINC PEROXIDE WITH SOME
NOTES ON OTHER PEROXIDES AND PERBORATES*

J. PAUL WINTRUP, D.D.S.

AN ATTEMPT will be made in this report to discuss briefly the peroxides and perborates which have had therapeutic value in oral infections and to compare their clinical efficiency. The use of zinc peroxide in the treatment of oral infections wherein microaerophilic or anaerobic bacteria are causative factors will be considered further; and a new product, sodium perborate monohydrate combined with mono-calcium phosphate, will be discussed.

Hydrogen peroxide was first described by L. J. Thenard. For many years it has been known to exert certain antiseptic properties. Mixed with disinfectants, it is sold under many trade names; perhydrol, dioxygen, hydrozone, glycozone, pyrozone, peroxal, etc. In dental offices, it is used under its chemical name in a 10 per cent solution. This has about 1.3 per cent of available oxygen. Hydrogen peroxide is a very unstable compound. In order to keep its constituent elements together, the solution must be slightly acid. To accomplish this, sulphuric acid is added in small quantities. The solution thus formed has a pH of between 1 and 2; but as soon as it comes in contact with organic substances, this acidity is lost and with that loss goes the stability of the compound. Its entire oxygen content is liberated rapidly. This feature is a virtue where strong effervescence is desired because the volatility is usually so marked that debris is carried off with it. For cleansing surfaces covered with

ropey saliva or thick pus, it is highly recommended. But, as a compound to combat infection due to anaerobic bacteria, where oxygen is the desired element, it is not so satisfactory as some other compounds. Many clinicians have recommended it for use in gingival ulcerations of all types. Prinz has frequently suggested its use in conjunction with scaling deep pockets; it has application not only as an antiseptic, but also as a help in removing blood clots and calculus-débris. Highly concentrated solutions of the compound produce white blisters, so that it must be used somewhat diluted. Its low oxygen content and its instability are its chief faults.

SODIUM PERBORATE TETRAHYDRATE

The existence of perborates was demonstrated by A. Étard in 1880. S. M. Tatar produced sodium perborate in 1898. Sodium perborate U. S. P. is the tetrahydrate, $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$. It is a white powder, odorless and quite stable at ordinary temperatures. The U. S. P. Compound must contain not less than 9 per cent available oxygen. In aqueous solution it has a very marked alkaline reaction—pH 10.2 to 10.5. Its chief value as an oxidizing agent over hydrogen peroxide, both medically and industrially, is the fact that it occurs as a solid; hence, it can be transported easily and mixed with other compounds readily. It is a deodorant, germicide, and bleaching agent. Its use by the dental profession in the treatment of mouth infections covers a score of years, and after the World War it became the medicament of first choice

* Read before the Delaware and Chester County Dental Societies, at Frazer, Pa., September 21, 1938.

with many in treating Vincent's infection. There is no doubt that it has done a tremendous amount of good and may still continue to do so, if properly prescribed. In order to be of value, it must first be placed in solution. The solution is highly alkaline; so much so, in fact, that its constant use will produce irritation and even ugly burns of oral mucosa. The Council on Dental Therapeutics of the A. D. A. in discussing the compound, pointed out that NaOH probably is an intermediary product in the decomposition of sodium perborate and, therefore, much care should be used in recommending it because of its irritating effects. The Council placed certain restrictions on its inclusion in dentifrices and frankly pointed out that its indiscriminate use as a routine mouthwash, dentifrice, bleach for the teeth, and preventive for 'pyorrhea' without strict supervision of a qualified dentist, is against the public interest. Certainly there is no indication for its use as a powder, applied directly to the tissues, as some have advised. Rather, it is definitely contraindicated, and this is likewise true of its routine use as a dentifrice. To have any real merit, it must be placed in solution, freshly mixed each time used. It loses its oxygen rapidly when this is done and more rapidly when in contact with such organic substances as are found in the mouth.

SODIUM PERBORATE MONOHYDRATE

It is possible to produce a type of sodium perborate in which three molecules of water are driven out, making the compound $\text{NaBO}_3 \cdot \text{H}_2\text{O}$. This compound, Manchey and Lee point out, mixes more readily with mono-calcium phosphate and other salts so that in admixture more oxygen can be made available than in the ordinary sodium perborate; and by the use of the phosphate and other inert ingredients, the solution can be buffered to

a satisfactory pH for mouth use, eliminating the excessive alkalinity and producing essentially a neutral solution. Taking the stand that sodium perborate tetrahydrate was too alkaline, these investigators, with the aid of Dr. Paul Poetschke, developed a compound (U. S. Patent No. 2094671) containing:

	Parts
Sodium perborate monohydrate...	32.3
Mono-calcium phosphate.....	32.3
Tri-calcium phosphate.....	24.6
Basic magnesium carbonate.....	10.8

This compound is manufactured under the trade name of neutrox.

In a series of tests conducted by Schroff using sodium perborate tetrahydrate and sodium perborate monohydrate to which had been added variable quantities of mono-calcium phosphate, it was shown that as little as 0.75 gram of sodium perborate tetrahydrate produced an erythema in 30 minutes; and this was accelerated when external heat was applied. Where severe burns were produced, this condition was followed by a burning sensation at the tip of the tongue and definite soreness at the junction of the lip and mucous membrane. The next day swelling and tenderness were present. Mixtures containing 30 per cent of sodium perborate monohydrate and amounts of mono-calcium phosphate in various quantities from 25 to 45 per cent with sufficient tri-calcium phosphate to make 100 per cent were free from irritating effects.

ZINC PEROXIDE

L. J. Thénard first described this compound in 1818. He obtained it by treating zinc hydroxide with hydrogen peroxide. It has been used as an antiseptic for many years; but it was not until quite recently that F. L. Meleney in searching for a drug to treat infections of a specific type, began the use of the compound in a somewhat improved form. He obtained

a medicinal grade of zinc peroxide which, when applied as a paste to suppurating wounds in which microaerophilic or anaerobic bacteria had been found, eradicated the infection and foul odors after all other medicaments had failed.

Zinc peroxide (ZnO_2) is a white, amorphous powder, resembling zinc oxide in appearance. It is quite stable and is not dispensed as a pure salt but contains 45 to 50 per cent zinc peroxide, 35 to 40 per cent zinc hydroxide, and 10 to 15 per cent zinc carbonate. The "medicinal grade" only should be used! It must be heated to 140°C . in quantities of not more than 500 grams, for four hours, to effect sterilization, in accordance with the manufacturer's specifications.

Effective preparations, when placed in creamy suspension, will sediment quickly, leaving a clear, supernatant liquid; bubbles will appear in the tube in several hours. At the end of twenty-four hours the sediment is raised to several times its original height. Ineffective preparations leave a milky supernatant liquid, produce little gas, and may harden like plaster.

Zinc peroxide has been known for a long time to be a powerful deodorant and, in a non-medicinal grade, has been used in many ways to combat offensive smells. Deodorization is a process of oxidation, so that it seems reasonable to believe that the ability of any given substance to bring about oxidation of another substance is in direct proportion to the length of time the oxidizing substance can continue to retain effective oxygen. Hydrogen peroxide and sodium perborate (both varieties) lose their oxygen quickly. Zinc peroxide does not do this and will continue to react almost as long as it is possible to retain it in contact with the tissues of the mouth.

One point about the use of oxygen-containing compounds should be clarified. The fact that in most of our mouth infec-

tions we are dealing with anaerobic bacteria, has led to the common belief that the gaseous form of oxygen is the effective part. This is not true! It is the *active oxygen* in the compound which is of real therapeutic value. Let us consider, then, the available oxygen content of our various compounds:

	Per cent
Hydrogen peroxide (10%).....	1.3
Sodium perborate (tetrahydrate).....	9.0-10.0*
Sodium perborate (monohydrate).....	15.0†
Zinc peroxide.....	7.5

* Approximately 3% soluble in solution.

† 4.6% becomes available in neutrox as 32.3 parts of monohydrate used.

Now, let us compare the pH:

Hydrogen peroxide.....	1.0- 2.0
Sodium perborate (tetrahydrate).....	10.2-10.5
Sodium perborate (monohydrate).....	7.1- 7.2
Zinc peroxide.....	8.8

By comparison, then, the hydrogen peroxide is very low in available oxygen, is unstable, and is dispensed in acid form, which makes it generally undesirable; the U. S. P. sodium perborate is high in oxygen content but is so alkaline it causes irritation. The zinc peroxide has the largest amount of available oxygen, its pH is within a satisfactory range, and it gives off its oxygen very, very slowly. Sodium perborate monohydrate, mixed with acid salts, approaches the ideal reaction and has a fairly large oxygen content. In solution, of course, it loses its oxygen quite rapidly.

We have discontinued the use of hydrogen peroxide, except when we want to cleanse surfaces. We rarely use sodium perborate tetrahydrate. All cases which have come under our supervision for the past year we have treated with zinc peroxide or neutrox, along with other local

medication. When zinc peroxide is used, we apply it as a paste, mixed with distilled water or boiled water, directly to the gums. Other medicaments used in gum infections include Gentian Violet 1 to 5 per cent, Acriviolet 1 to 5 per cent, Acriflavine 1 to 5 per cent, Chromic Acid 8 per cent, Mercurochrome 5 per cent, Ultraviolet light. Thorough scaling when the acute symptoms have subsided is as important in the treatment as the medicaments. We have the patients apply the zinc peroxide on the gums at home, starting at half-hour intervals for twenty-four hours, then gradually decreasing the intervals to four times a day, a schedule which is maintained for several weeks after the active symptoms have subsided. We have used neutrox restrictedly because of our concurrent interest in zinc peroxide. One of the cases to be reported, however, demonstrates the irritating effect of sodium perborate tetrahydrate and the opposite reaction with neutrox.

Twenty-five cases have come under our observation in which neutrox was used alone. In every case the symptoms treated subsided without untoward effects.

We previously reported the use of zinc peroxide in thirty-five cases. Since that time we have added seventeen cases to that list. Two of these are particularly interesting.

Case No. 1. Miss F. B., white, age 34, admitted 7/4/38, temperature 100, pulse 90, respirations 20. She had a severe cough and a sore throat on being put to bed. Typhoid and para-typhoid negative; smears from gum negative; negative for mononucleosis; throat culture yielded *Strep. non-hemolyticus* and *Staph. aureus*. Blood count essentially negative. Physical examination essentially negative except for redness of gums, the cough and the sore throat. We were

asked to see her on the third day and found the entire mucosa on the upper left side to the mid-line highly edematous, of an angry red color and slightly painful. Posterior pharyngeal wall showed evidence of slight ulceration, and we felt that this same characteristic appeared in spots both above and below where the red color somewhat confused the appearance. Temperature at this time had slightly increased and the white cell count was 11,400. A second throat culture was reported the same as the first. Blood culture was negative. Sputum culture yielded the same organisms as the throat cultures but showed extensive evidence of pus cells. Zinc peroxide in paste form was applied every half-hour and the patient was instructed to rinse with sodium perborate, a teaspoonful to a glass of water, before each application. The following day the lips were swollen to three times their normal size and the mouth generally was worse. The sodium perborate was immediately discontinued, and definite ulcerations which resembled silver nitrate burns had become evident, particularly on the left side. The mouth was painted with 5 per cent aqueous gentian violet and the half-hour washings before the application of zinc peroxide were discontinued for one day and resumed with neutrox. On 7/9 white cells were 12,100. The redness had decreased, but the white ulcerations were still evident. A diagnosis of lichen planus was made. At this point the patient, on questioning, stated she had just returned from her vacation which she had spent in a home where lichen planus existed. The mouth symptoms had definitely taken on the appearance of this disease. We continued daily swabs with 5 per cent gentian violet and 5 per cent acriflavine intermittently, zinc peroxide paste at intervals of one hour, with the neutrox wash preceding its application. Her

fever began to subside and the mouth lesions disappeared concurrently. After temperature had remained normal for several days her chest was x-rayed. The report showed distinct evidence of pulmonary involvement of the entire right lung, but there was no clean-cut picture of any definite condition. She seems quite well now with the entire mucous membrane of the mouth normal. Following the x-ray report, the physician made a diagnosis of chronic tracheo-bronchitis.

Case No. 2. Mrs. T. G. B., white, age 42, a new patient, came to the office on 4/11/38, for routine examination. There were several carious areas, recurrent around other fillings, and the mucous membrane had a dull red appearance throughout. The epithelium was broken in several places and these bled freely on slight pressure. Patient said small blisters would appear in her mouth and break, leaving these spots. She reported to me that this condition had been prevalent for seven years. On further questioning, she reported the same type of lesion was present on the vaginal mucous membrane and had been diagnosed by several physicians as lichen planus. The vaginal manifestations had been recently treated locally, and consultation with her physician revealed that he was not certain it was lichen planus. The patient had received various kinds of treatment for her ailment. There was some evidence of a bluish line at the gingival border. X-rays of her teeth revealed an impacted lower third molar, which had partially erupted many years ago, and the gum around a small opening of the mucous membrane was badly ulcerated. The patient reported this had existed for years. Efforts to establish allergic susceptibilities were negative. Mercuriochrome, vaginally, had not irritated, and we alternated between a 5 per cent solu-

tion of the same drug and acriflavine 1 per cent, applied twice a week. We used mild doses of ultraviolet light before the application of the dyes, and the patient applied zinc peroxide every three hours as a paste, at home. In one month the mouth had healed sufficiently to permit removal of the impaction and the elimination of the severe ulcerated area. During the operation for the removal of the impaction it was noted that the tissue was quite friable and slight retraction of the flap caused a severe laceration. The entire area healed in ten days, but it was necessary to use diathermy several times to eliminate post-operative soreness. She continued to use zinc peroxide four times a day as a paste. A final prophylaxis was done on 6/23 and the patient went away for the summer. There were no noticeable evidences of the severe irritations originally found. The right side of the mouth was completely healed and had the appearance of normal mucous membrane. The upper left side still retained a slightly cyanotic appearance. She reported some improvement in the vaginal symptoms. During the treatment, a blister appeared at the waistline and this was treated by her physician. There were no further attacks of this type. On her return in the fall, we noted slight evidence of the bluish, cyanotic appearance on the upper and lower cheeks of the left side. The right side was normal. She has continued the zinc peroxide treatment all summer, and we feel that the condition is generally much improved. The third molar area is completely healed. We believe we are dealing with pemphigus.

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The statistical section of the JOURNAL has compiled some interesting figures which show that the student body of the Dental School is a representative cross section of the youth of America.

The 280 students of the School represent 21 states, the District of Columbia and 4 foreign sources. Maryland has the largest representation with 95 students, 77 of whom are from Baltimore. New York takes second place with a group of 45 students, 30 of whom are from New York City. New Jersey has sent 40; Delaware 4; and Pennsylvania 5. The New England delegation consists of 51 students, of whom 36 are from Connecticut; 7 from Massachusetts; 5 from Rhode Island; 1 from Maine; 1 from New Hampshire; and 2 from Vermont. The Southern contingent consists of District of Columbia 4; West Virginia 12; Virginia 5; North Carolina 5; South Carolina 1; and Alabama 1. The West is represented by 1 from Colorado; 1 from Wisconsin; 1 from Illinois; 1 from Oklahoma; and 1 from Ohio. Our foreign group consists of 4 from Puerto Rico; 1 from the Canal Zone; 1 from Panama; and 1 from Trinidad, B. W. I.

SQUAMOUS CELL CARCINOMA OF THE ORAL CAVITY*

CARL E. BAILEY, D.D.S.

DURING the past fifty years, the average duration of life has been increased from twenty-nine to fifty-six years. This increase in the longevity of man has been due largely to rapid advances along the lines of preventive and curative medicine. While much has been learned regarding the course and the ultimate effects of malignant diseases, little is known about the cure except that successful eradication of the disease must depend upon early recognition and complete removal or destruction of the growth. Carcinoma of the oral cavity is a relatively common disease; and the dentist, above all others, has a grave responsibility in the matter of the recognition of early lesions.

At the present time, cancer is one of the greatest medical problems in the United States. Approximately 150,000 deaths occur in this country each year as the result of malignant disease. Cancer is second in the list of the causes of death, being surpassed by heart disease only. The death rate from the years 1911 to 1935 rose 14.5 per cent, or from 75.8 per 100,000 to 86.6 per 100,000. Of the previous figures, 3.2 per 100,000 or 8,095 of the deaths were caused by cancers of the oral cavity, of which carcinoma of the tongue caused the highest death rate. In the same period, deaths from carcinoma of the buccal cavity decreased from 3.4 to 3 per 100,000 of population.

The age of susceptibility to cancer is in the later period of life from the fourth decade up, being greatest during the sixth and seventh decades. It is uncommon to

find carcinoma occurring between birth and the fortieth year.

The frequency of the disease of the oral cavity is much greater in males than in females, being about seven or eight to one respectively. Approximately 85 per cent of the number of carcinomas occurs in males.

The important factors in the causation of cancer of the oral cavity are syphilis, tobacco, and defects of the teeth. In many cases all three factors are combined; while one or more are constantly present. The frequency of syphilis is variously estimated, Miller finding signs of lues in only seven cases of 207 persons suffering from oral carcinoma. On the other hand, Fournier found the disease to be present in 155 of 184 cases. It has been estimated that 40 to 50 per cent of cases of carcinoma of the tongue are coexistent with syphilis. The action of lues is indirect, preceding the carcinoma by a definite and usually prolonged luetic lesion with or without ulceration. It is a notable fact that the syphilitic process may, due to treatment, completely heal or subside; while a preëxisting cancer may continue or develop later in the scar or appear in the lymph nodes under a smooth epidermis.

The action of tobacco in the production of squamous cell carcinoma is not fully understood, but it has some influence in its production. The irritant effects of tobacco stimulate the epithelium, producing chronic hyperemia, local erosions, lymphocytic infiltration, edema and ulceration, and in this manner predispose the oral tissues to the disease. The thermal effects and mechanical irritation

* An abridgment of the prize-winning thesis for June, 1938.

must also be considered, for many cancers occur at the tip of the tongue. Persons who are tobacco chewers often develop squamous cell carcinoma in that region where the quid is held.

Many buccal cancers are directly caused by imperfect conditions of the teeth. The most obvious cases are those in which a projecting or ragged edge of a tooth continuously abrades the mucosa. It is difficult to detect the exact source of the causative irritations and it is often overlooked. An imperfect alignment of the teeth, rough margins or restorations, carious teeth, roots, periclasia, calculus, chronic alveolar abscesses or even the traumatism of an extraction may be sufficient to incite a cancerous growth, especially in luetic smokers.

Leucoplakia as a predisposing factor in the production of squamous cell carcinoma plays a very important rôle. The factors concerned in the production of leucoplakia are two in number. The first acting on the submucosa may be a local irritant, but again it may be a systemic condition, of which the local changes in the tongue are only local manifestations. It is surely not without significance that the commonest factor, syphilis, in its tertiary stage produces systemic disturbances which lead to tongue lesions. The second factors which most commonly lead to leucoplakia are smoking and drinking of intoxicating beverages, either of which may be a direct cause. Nearly anything which can be stated in regard to the etiology of cancer of the oral cavity applies in a similar manner to leucoplakia. It is more commonly found in persons after middle age and affects the male sex almost exclusively. The appearance of leucoplakia in old syphilitics is frequent, though no direct relationship can be established.

From a gross standpoint there are three principal forms of carcinoma of the oral

cavity, papillary, ulcerous or diffuse, and infiltrating. The ulcerating type is the most common. The lesion arises from fissures or abrasions and is ulcerated from the beginning. The edges of the ulcer are irregular, though rather sharply defined; the surface is irregular and eroded; and the base is markedly indurated. Lesions of this type remain relatively superficial and as time goes on involve more and more of the mucosa. Occasionally the tumor may begin as a nodule in the submucosa which ultimately breaks down with the production of a deep irregular ulcer.

In the rare and less malignant papillomatous form, the lesion may be the result of malignant changes in a simple papilloma or it may arise primarily as a malignant lesion. Tumors of this type are seen as irregular projecting masses. Ulceration generally occurs late in this type of lesion. The infiltrating type develops not infrequently at the site of leucoplakia and multiple points of origin may exist. Diffuse infiltration occurs in the underlying tissues which become thickened and markedly indurated. This type of lesion is seen as a broad, flat, greyish-white mass on the buccal mucosa or upon the tongue. Necrosis and ulceration occur late.

Squamous cell carcinoma of the oral cavity spread by numerous methods; the time and the degree of spread depend upon the age of the carcinoma and the degree of malignancy. Local extensions of buccal carcinoma usually occur wide and early. Those occurring in the tongue may be somewhat restricted to one lateral half or to the base; but advanced lesions invade both sides, extend from the base in all directions and from the tip and edges to the floor of the mouth. Local and direct extension occurs by a passage of the epithelial cells downward and laterally from the surface, and they insinuate themselves between and about

any tissue which they contact. In a case of a muscle tissue, the fibers once surrounded undergo degeneration. The fibers lose their striations and decrease in bulk. All other tissues suffer a similar fate, all being invaded, destroyed and replaced by epithelial cell.

Nature in her effort to block invasion of the body throws up a barrier of connective tissue to attempt to reduce or stop the invasion. In cases of squamous cell carcinoma this barrier of connective tissue while stopping the spread in one direction acts as a means or route of invasion in another. The malignant cells spread laterally between the laminae of the facial plane, but it has been stated that this phenomenon depends on tissue tension.

Pain is usually an early clinical symptom of oral carcinoma because of the fact that the mucosa is richly supplied with sensory nerves. The pain is due to nerve involvement, two forms of which have been observed. First, the perineural connective tissue is invaded, resulting in pressure upon the nerve and causing pain. As a result of the pressure the nerve bundles are gradually separated. The malignant cells may also make their way between the separated fibers and gradually spread along the endoneurium. Carcinoma spread in this manner leads to atrophy of the nerve but does not cause rapid or deep spreading of the disease.

Another method of spread of oral carcinoma is through the blood channels, although this method is a matter of dispute. The tumor cells may form a relatively loose mass or plaque of cells in the vessel wall from which a malignant cell or cells could easily be dislodged and thus be free in the blood stream. These cells may lodge in some distant organ or tissue, thus setting up a secondary neoplasm. The cells, however, may not be detached into the blood stream but form

a plug occluding the vessel. It has been noted that all cells which enter the blood stream need not set up a secondary tumor but may be destroyed by the action of the plasma and blood corpuscles.

Metastases in the organs are rare but have been observed in the liver, heart and adrenal. The number of cases of internal metastases is small, being about 1 per cent. In 148 autopsies at the Middlesex Hospital, there were 8 metastases to the liver, 7 to the lungs, 4 to the pleura, 3 to the adrenal, and 2 to the heart.

The great majority of patients who develop metastases do so by means of lymphatic channels; these first appear in the lymph nodes of the neck. The importance of lymphatic spread of carcinoma is incalculable in dealing with any type of epithelial neoplasm. Invasion of the lymphatic channels is by no means uncommon, but such invasion occurs close to the proliferating edges of the growth. The lymph vessels which are invaded by malignant cells usually run parallel with a blood vessel and are termed perivascular lymphatics. Once the lymphatic gland is invaded, it is destroyed by pressure atrophy, and further spread may occur through afferent vessels to other glands, thus effecting widespread dissemination of the disease. The capsule of the gland may be penetrated, thus causing an infiltration of the surrounding fascia and rendering the gland fixed. The cervical lymphatics determine the course of the metastases. The submaxillary group drains the border of the tongue as far back as the fauces, the middle section of the anterior half of the tongue and the undersurface of its tip, and the floor of the mouth.

The superior deep cervical group located on the internal jugular vein and the carotid artery drains all parts of the mouth, tongue, fauces, and upper part of pharynx. The anterior surface of the

palate is drained by nodes at the lower end of the parotid. The deep cervical nodes lying on the jugular vein receive branches directly from the apex of the base of the tongue and the anterior portion of the floor of the mouth. The anterior portion of the buccal floor and lips drains into the submental nodes. The submaxillary glands are infrequently invaded.

In those cases where lymphatic metastasis has occurred, the chances for cure are greatly reduced; indeed, some authorities regard them as incurable.

Secondary carcinoma of the mouth is extremely rare; such growths when they involve the oral mucosa are as a rule extensions from metastatic nodules which have developed in and destroyed the bone of the jaw.

Geshieter in reporting 323 tumors of the jaws found only three cases of metastatic carcinoma.

TREATMENT

In contemplating the treatment of squamous cell carcinoma of the mouth, it is necessary to consider not only the primary lesion but also the entire field of the lymphatic drainage which may become invaded by the growth. There are several recognized treatments of today: excision, radiation, and the use of Roentgen rays.

In attempting to bring about a cure by

excision, the usual method is the excision of the local lesion together with the lymphatic drainage area. There are, however, variations from this procedure. If one is dealing with early tumors and especially if upon examination the growth is of a low grade malignancy, excision of the local lesion may be sufficient. Then again the general physical condition of the patient may not warrant an extensive operation.

Today, many of the larger clinics have discontinued surgery within the mouth almost entirely and have substituted radium therapy. Radium is used in the form of external or interstitial implantation, depending upon the location and type of the lesion, the amount of radium available, and the experience of the operator.

Roentgen rays are often used as a prophylactic measure in the various areas of the neck in which there is no gross involvement of the lymph nodes.

There is no definite form of treatment which may be resorted to for any particular type of case. Treatment by excision may be entirely relied upon, excision and irradiation with radium or Roentgen rays may be resorted to, or irradiation alone may be used; according to which type may bring about the most effective or permanent cure of the case to be treated.

THE CLARENCE J. GRIEVES LIBRARY FOUNDATION

THE RELATION OF ARTHRITIS TO DENTISTRY*

GEORGE F. O'BRIEN, M.D.

THE manner in which a focus of infection produces remote effects is speculative. Some believe there is a direct invasion of the blood stream by the bacteria. Others favor the view that toxins are absorbed from the focus by the blood stream and distributed to remote parts. The allergist holds that there is an absorption of bacterial antigenic substances from the focus, which sets up an allergic reaction. None of these ideas can be substantially proved.

Whatever the mode of action of focal infections, it must be remembered that the focus itself may not be the most important factor. It is rather the particular individual's defensive make-up and his reaction to the focus that count. Many individuals carry multiple foci of infection to their graves without their ever producing apparent disease. Many have foci of infection that remain innocuous for years, only to become suddenly the apparent instigator for some remote disease during the period of lowered resistance. Some arthritis patients improve after removal of what appeared to be an insignificant recent focal infection. Still others fail to improve after all available foci are removed. So it cannot be emphasized too strongly that the important consideration in foci of infection is not the focus per se, but the individual's reaction to the focus. Unfortunately, there is no means at hand whereby these individual reactions can be determined. Were there such a means, much of the

confusion regarding the removal of foci of infection would be over. In the resistant individual, foci of infection could be reasonably tolerated. In the susceptible patient, foci of infection, as well as any procedure likely to produce one, would be looked upon with disfavor.

That the teeth may act as foci of infection is well established. The most important dental foci are periapical abscesses or granulomas in viable or devitalized teeth. Of somewhat less importance are unerupted deciduous and permanent teeth, particularly if they communicate at all with the oral cavity. Root fragments must also be looked upon with suspicion. Since these foci are bacterial in origin, it is necessary to consider how the bacteria reach these apical regions. From the reports of Haden in 1933, and recent reports by Logan, as well as Burket, Fish, and Hammond, it would appear that bacteria find little difficulty in reaching the apical regions of even vital teeth. Haden obtained 14.5 per cent positive cultures from 400 vital teeth. Burket obtained positive cultures from the periapical areas of 30 per cent of roentgenologically negative teeth. Fish reports positive cultures from 43 per cent of clinically normal teeth. Logan obtained positive cultures from the surfaces of two completely embedded third molars. Carolyn Hammond cultured the pulps of normal teeth and obtained 33 per cent positive cultures. Judging from these reports, at least one out of every three healthy teeth harbors organisms. Logan and Burket emphasize the fact that tissue reaction is entirely lacking about these teeth, and

* This is an abridgment of a paper read before a meeting sponsored by the Grieves Foundation, March 30, 1938.

therefore they are not focal infections. Nevertheless it would seem that the stage were set for their production, should the apical regions become areas of lowered resistance.

Perhaps the most evident mode of apical infection is by way of dental caries. From these, bacteria invade the pulp and may reach the periapical regions in sufficient dosage to produce local abscesses or chronic granuloma. Whether the pulp can be removed and disinfected to prevent apical pathology seems doubtful: first, because of the difficulties of adequate disinfection; and secondly, because the tooth must be devitalized and thereby rendered a *locus minoris resistentiae*. That this is true is suggested by the work of Fish, who obtained 72 per cent positive cultures from the apical region of teeth with root canal fillings. Furthermore, Rosenow, experimenting with dogs, devitalized certain teeth. He then injected bacteria into the blood stream or peritoneal cavity. In most of these cases periapical abscesses developed in the devitalized apices, indicating that they had become areas of lowered resistance. Bearing in mind the ease with which apical areas may be invaded, the difficulty of properly and surely disinfecting root canals, and the creation of an area of lowered resistance, it must be concluded that to produce a devitalized tooth is to create a very possible focus of infection. With an arthritis patient there can be little justification for such a procedure.

In the proper management of an arthritis patient, the method of handling focal infection depends on the type of arthritis. In the rheumatoid type every possible focus should be removed. There is usually no question about the frankly abscessed tooth, nor even about the radiologically positive devitalized tooth. But as regards the roentgenologically negative devitalized tooth, there is a wide diver-

gence of opinion. Some maintain they should be left alone; others maintain they should be removed. There is so much evidence that X-ray negative devitalized teeth harbor organisms, and may even have apical granulomas, that their removal seems logical, particularly in the early cases where an attempt is being made to prevent recurrences. The argument that bacteria about a tooth apex is not synonymous with infection loses its effectiveness when it is realized that pathological studies are required to determine that point. Further, if infected devitalized teeth can often be radiologically negative, it must be admitted that the X-ray cannot be accepted as supplying the deciding evidence. It would seem better to sacrifice an occasional devitalized, harmless tooth than to risk the danger of leaving behind a focal lesion, which may be providing fuel for arthritis.

Obviously, this rather extreme view regarding focal infection, as it applies to the teeth, cannot be made a universal dictum. In the early acute cases, and in those less severe but stubborn cases where structural changes in the joints are minimal, radical measures are justified. The individual with only a history of past arthritis should have removed those foci that are obvious. Radiologically negative, devitalized teeth should be left alone, but should be carefully examined and X-rayed at frequent intervals. Those suffering from chronic arthritis, with considerable joint damage, require careful judgment. In general, they should receive rather conservative treatment, so far as removal of teeth is concerned. Obvious foci should be removed. Less obvious foci might better be observed.

In the treatment of osteoarthritis, since infection plays little if any part in its production, the treatment of foci of infection should be very conservative. There is

perhaps only one indication, namely, debility, which is thought to be related to the focus of infection. The general principle in this type of arthritis should be to preserve the best possible chewing apparatus. This can best be done by preserving the patient's teeth as long as possible.

PRESENTATION OF THE FOUNDATION

The June 1938 number of the *JOURNAL* contained the report submitted to the members of the Maryland State Dental Association by The Clarence J. Grieves Library Foundation Committee recommending that the Library Foundation be combined with the present library of the Dental School. Since that time definite action has been taken on the matter. At the annual meeting of the members of the Maryland State Dental Association on May 3, 1938, it was resolved and adopted that the Association approve this recommendation.

On October 18, 1938 an agreement was made between the Maryland State Dental Association and the University of Maryland. The following is a summary of the contents of that agreement: The Board of Regents of the University of Maryland accepts the books, publication, the physical assets and funds subject to this mutual agreement.

1. All professional books and publications purchased through the use of the funds belonging to the Clarence J. Grieves

Library Foundation are to be donated and transferred to the University.

2. Totals to cash and invested reserve funds of the Clarence J. Grieves Library Foundation are to be transferred to the University. (On July 1, 1938 the cash amounted to about \$4,000 and securities about \$14,000).

3. The gift is to be subject to the following: (a) Said books, publications and equipment are to become a part of the library of the School of Dentistry of the University, the name to be perpetually The Clarence J. Grieves Library Foundation in memory of this distinguished alumnus. (b) Said funds are to be used for the purchase of books, pamphlets, journals and other similar materials or library equipment and for any other purpose necessary for the best interest of the library and the School of Dentistry and for the purpose of defraying in whole or in part the expenses of publication of research or other bulletins of the School. (c) No funds are to be spent without the recommendation of the Faculty Council of the School of Dentistry. The Board of Regents realizes the right of the School or anyone interested in it to add to the principal amount any sums realized by the sale of educational supplies, by gift or otherwise.

4. The University accepts the above recited gifts of books, funds, assets and so on, subject to the conditions cited.

ALUMNI NEWS

NATIONAL ALUMNI ASSOCIATION

AS EACH year passes it is increasingly evident that June Week is assuming an important place in the activities of the School of Dentistry. This is further illustrated by the effort on the part of the Dean to see that a General Chairman is selected early in the school year so that he will have sufficient time to plan with the President of the Alumni Association the details of Commencement activities. There are many details, for there are many events. Some are almost entirely for the Students; others almost entirely for the Alumni. Such a program takes cooperation and coordination, and fortunately for the June 1938 meeting the committees from each group gave unstintedly of their time and advice to the point where at the end it was a job which truthfully could be labelled "well done." To these men, the General Chairman and the officials of the Alumni Association and of the Dental School, are unusually indebted.

The Senior Prize Contests, to which your attention was called in the June 1938 issue of the JOURNAL, resulted in the following awards:

For Cohesive Gold Filling—Frank A. Lasley, Jr. Honorable mention: Carl Elliott Bailey, Frank Peter Cammarano.

For Full Mouth Operative Restoration—Sidney E. Liberman. Honorable mention: Jack Menefee Messner, Reed T. Goe.

For Practical Set of Full Upper and Lower Dentures—Leonard Lee Levin. Honorable mention: Eugene Davisson Lyon.

Following these contests the Senior Class Final Assembly was held with brief addresses by Dr. Bell, President of the

Alumni Association; Mr. Floyd Neal, President of the Class of 1938; and Dr. Robinson, Dean. Dr. Bell stressed the importance of continued interest in the School and expressed his hope that each senior would on graduation feel it not only an obligation but a privilege to join the Association and work for the progress of his Alma Mater. Mr. Neal acknowledged Dr. Bell's greetings and gave a resumé of the class activities since entrance. Dr. Robinson wished the class collectively and individually success and told them that their success was in reality the standard by which the success of the school would be measured. The Senior Class and visiting alumni, as well as the teaching staff, judges of contests and others, then enjoyed a luncheon served in the University Hospital Dining Hall. From there we went to the Lord Baltimore Hotel, where the Senior Class Exercises were held, beginning with an appropriate academic procession. Norman Cole, M.D., addressed the students on their professional opportunities and duties. Dr. Byrd, President of the University, also spoke. The exercises were brightened by the rendition of an attractive musical program, instrumental and vocal. The prizes won in the morning contests were awarded. In addition, first honors went to Eugene Davisson Lyon; with honorable mention to Sidney E. Liberman, Carl Elliott Bailey, Floyd Warren Neal, Jack Menefee Messner and George Carl Kraus. The gold metal for thesis was awarded to Carl Elliott Bailey. The Harry E. Kelsey Award for Professional Demeanor was given to James Titus Cabler.

On Thursday morning Dr. Robert Parke Bay and associates presented a

scientific program on Oral Surgery. Dr. Bay has graciously contributed in like manner to our program for several years. There has been an ever increasing interest in this subject. The attendance was extremely gratifying to us, and it must have been likewise to our medical friends.

The Senior Class Banquet and Dance was held Thursday evening at the Emerson Hotel. Gardner P. H. Foley, honorary president of the class, gave the address; Dr. Herbert Wilkerson was the toastmaster.

Reunion dinners of the classes of 1898, 1903, 1908, 1913, 1918, 1923, 1928 and 1933 were held. The 1918 affair, held at the Rolling Road Golf Club, was very successful. 1923 held its dinner at the Southern; 1928 and 1933, at the Emerson—each class having a splendid quota and a real get-together. In fact, classes of the future reunions can anticipate a very enjoyable time if they will accept the examples of these groups.

On Friday, June 2, the scientific program, which had been well diversified as to subject, was cordially received by visiting alumni. Dr. Walter Wright, Professor of Prosthetic Dentistry at the University of Pittsburgh, spoke on "The Problem of Tissue Resiliency in Relation to Complete Denture Prosthesis." Dr. Daniel Lynch, Special Lecturer in Oral Surgery, George Washington University Medical School, spoke on "A Consideration of Certain Important Phases of Exodontia." Dr. Frank T. Maxson of Newark, New Jersey spoke on "Operative Surgical Pyorrhea"; and Dr. Emory Thompson of Buffalo, on "A Consideration of the Problems involved in Bridge Work."

The Annual Business Meeting resulted in the election of the following:

ARTHUR I. BELL, *President*

GERALD A. DEVLIN, *First Vice-president*

CLARENCE E. SAUNDERS, *Second Vice-president*

WILLIAM F. MARTIN, *Secretary*

HOWARD VAN NATTA, *Treasurer*

HAMMOND L. JOHNSTON, *Historian*

ALBERT C. ESKIN, *Editor*

Executive Committee

MYRON S. AISENBERG, *Chairman*

GERALD I. BRANDON

J. COLLINSON JOYCE

THOMAS R. MANAKEE

J. ROBERT MANUEL, JR.

CONRAD L. INMAN

MAX K. BAKLOR

GRAYSON W. GAYER

There are 273 active paid members of the association.

The following motions were made and adopted:

Chapin A. Harris Monument Committee: Dr. Thomas Bland, chairman, recommended removal of monument from present site, to be placed in the Baltimore Museum, if possible.

Coin Committee: Dr. Harry B. McCarthy, chairman, gave an explanation of the purpose of the Commemorative Coin, stating that a bill had been introduced in Congress, but that it had been withdrawn to be placed again at the next session. We are asking for 60,000 coins.

A motion made by Dr. Aisenberg to accept nominations for officers as presented was received unanimously.

Dr. Bell gave an expression of thanks and appreciation to the committees and members who had cooperated with him during the year.

At night the Annual Banquet and Dance was held at the Lord Baltimore Hotel, the attendance at which was 272. There were no speakers. A few words of greeting by the President of the Alumni, the President of the University and the Dean sufficed. Then on with the dance

and innovation, a cabaret entertainment, cleverly devised and expertly conducted.

On the following day at College Park diplomas were awarded; and another year, the 98th of our institution, had passed into history.

The annual golf tournament was held at the championship Five Farms course of the Baltimore Country Club on Thursday, June 2, 1938. Because of the Alumni Meeting and Commencement Week activities it was our great pleasure to entertain many of our out-of-town alumni. The home guard was also well represented. After a delightful luncheon served at the Club House, the tournament got under way. There were fifty-eight golfers, all striving for the coveted cup. The following were prize winners: Championship Cup, Dr. George E. Hardy, Jr.; low net winners, Dr. George Anderson, Dr. Thomas Spoon, Dr. Glen Carter, Dr. Vincent McGrail, Dr. E. Gordon Holbrook.

The Association entertained the visiting ladies of the Alumni at noon on June 2, 1938 at a delightful luncheon at the Longfellow Hotel. There were one hundred ladies present.

Mrs. Harry B. McCarthy and Mrs. Richard Leonard met the out-of-town guests at the Lord Baltimore Hotel, and brought them to the Longfellow Hotel, where they were received by Mrs. George M. Anderson, Mrs. Harry E. Kelsey, Mrs. J. Ben Robinson and Mrs. Horace M. Davis. Mrs. C. Clifton Coward, Chairman of the Entertainment Committee, welcomed the guests and extended her thanks to the committee for their excellent work and support.

At one-thirty the group left for a motor trip to Annapolis. Dr. Carl P. Russell of Annapolis had arranged for parking facilities in his city, and he also furnished a guide who escorted the party through the State House.

Mrs. Harry W. Nice received the visiting ladies in the Government House, at which time Mrs. Coward presented Mrs. Nice with a lovely corsage from the National Alumni Association. Mrs. Nice showed the ladies through the beautifully redecorated Government House and presented them to the Governor.

As we are about to round out the hundredth year in the life of our School, it is well to take stock of ourselves and consider where we now stand in relation to the great development that has taken place in the profession and in dental education. We have only to consider the prominent place that our alumni enjoy in the dental profession both home and abroad, the contributions that have been made by our graduates to the scientific advancement and welfare of our profession, to say nothing of the improvement in our physical equipment and buildings, to be convinced at the turn of its one hundredth year of existence that the University of Maryland Dental School has kept well apace.

We can be proud of being alumni of the University of Maryland Dental School, and more so at the present time than ever before.

As is generally known, there will be celebrated in Baltimore next year this one hundredth anniversary of the founding of our School and, of course, the centennial of the introduction of the teaching of scientific dentistry.

Extensive and elaborate plans are being formulated for this celebration. It has international significance; it will receive world-wide publicity.

Just as our alumni association has contributed so much to the development of the School in the past 100 years, so its growth in the years to come must be dependent to a great extent upon the

support and loyalty of an active alumni group. There is no better way to get interested in the growth of the University and to keep posted on its progress than to attend the activities. Last June Week was one of the most interesting and best attended in the history of the University. Excellent clinics, social functions and class reunions were well staged and enthusiastically received.

Dr. Aisenberg in charge of June Week activities has elaborate plans for this year. Dr. Shehan, General Chairman of the Committee for Class Reunions, is busily engaged in developing ideas in regard to this phase of the activities.

Within recent times the National Alumni Association has formulated and put into effect the plan of inviting especially, various classmen of alternating years (B. C. D. S., U. of Md., B. M. C.) to convene in Baltimore as reunion groups at Commencement time each year. The scheme provides for a get-together of certain classmates on every subsequent five years following graduation. This program provides for graduates of pre-existing colleges to fraternize as single units and to join hands with other groups of like intent and interest.

The Alma Mater has and will again attempt to contribute its part toward making the returning alumnus feel that aside from assured good fellowship other compensations pertain. Such efforts will be made through special lectures and demonstrations by members of the teaching staff and especially invited guests on subjects of importance and interest to all practitioners. The plan and practice provide for older graduates particularly to view facilities in use and the methods employed in teaching which will enable them to evaluate the merits of the Alma Mater as a well organized and going

concern in the field of progressive dental education. It is safe to predict that each returning alumnus will be favorably impressed by an inspection of the plant and a study of procedure in effect in the institution which gave him professional birth.

From its inception the plan for annual homecoming of certain alumni class groups each year has been a pronounced success. Each succeeding year has shown an increase in attendance and interest in what the occasions have offered. The 1939 conclave should be a banner one. Individual interest and action will insure this hoped for result.

If it be true that the quality and standing of an institution of learning can be measured only by the average sum total of the records made by its alumni in the affairs of life, it is logical to reason that Alma Mater and Alumni are bound together by indissoluble ties which call for support of each other. Acting on this premise, the elected officers of the Alumni Association are doing what they can to bring the Mater and her offspring into an understandable working relationship with each other, in the accomplishment of which purpose credit will be reflected on each in like proportion. A willingness to respond to a call from your representative when issued, will be proof of your loyalty to a foster parent whose helpfulness in things professional will thereby be acknowledged and her hand strengthened for duties that lie ahead.

Class Reunions Committee

DR. DANIEL E. SHEHAN, *Chairman*

Medical Arts Building, Baltimore

1894

B. C. D. S.—DR. WILLIAM S. HAMILTON,
New Orleans, Louisiana.

U. of Md.—DR. PHINEAS E. HORTON,
Winston-Salem, North Carolina.

1899

B. M. C.—DR. JOHN E. SWALLOW,
Baltimore.

B. C. D. S.—DR. HAYWARD STREETT,
Baltimore.

U. of Md.—DR. CYRUS KURTZ, Paterson,
New Jersey.

1904

B. M. C.—DR. JOHN H. WOODEN,
Baltimore.

B. C. D. S.—DR. THOMAS R. MANAKEE,
Baltimore.

U. of Md.—DR. WALTER GREEN, Bal-
timore.

1909

B. M. C.—DR. JOHN E. AUER, Baltimore.

B. C. D. S.—DR. WILLIAM H. BAISH,
Baltimore.

U. of Md.—DR. JOHN S. MANDIGO,
Baltimore.

1914

B. C. D. S.—DR. NORVAL McDONALD,
Baltimore.

U. of Md.—DR. C. A. RUPPERSBERGER,
Baltimore.

1919

B. C. D. S.—DR. GEORGE ANDERSON,
Baltimore.

U. of Md.—DR. VICTOR LONG, Baltimore.

1924

U. of Md.—DR. C. M. TRETTIN, Bal-
timore.

1929

U. of Md.—DR. KYRLE PREIS, Baltimore.

1934

U. of Md.—DR. J. C. BIDDIX, JR., Balti-
more.

THE CENTENNIAL AND CONVENTION

The date for the coming Centennial and Convention has been set for Monday, Tuesday, and Wednesday, March 18, 19,

20, 1940. The officers and committeemen have already begun work on the convention plans and promise an elaborate program.

All members of the Dental Profession are strongly urged to make a vigorous attempt to attend because the Centennial commemorates the founding of *your* profession. A strong representation at this event will convince the public at large of the rapidly increasing prominence of Dentistry. In addition, for the alumni of the Baltimore Dental Schools, there is the prospect of revisiting old stamping grounds; for those unacquainted with Baltimore, there is the prospect of visiting a city famed for its hospitality, good cheer and good food.

The officers of the Convention and Centennial: General Chairman, Dr. B. Lucien Brun; Secretary, Dr. Myer Eggatz; Treasurer, Dr. George Jersin.

Committee Vice-chairmen: History, Dr. J. Ben Robinson; Scientific, Dr. George Anderson; Local Arrangements, Dr. James Ferguson; Historical Exhibits, Dr. Alexander Paterson; Historical Drama, Dr. Noel Smith; Commemorative Coin, Dr. Harry B. McCarthy; Publicity, Dr. Earl Swinehart.

FRATERNITIES AND SOCIETIES

THE INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH

The International Association for Dental Research will have their annual meeting in conjunction with the American Association of Dental Schools at Cleveland, Ohio, in March.

THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

The meeting of the Subsection on Dentistry of the American Association for the Advancement of Science was held in Richmond, Virginia, on December 28, 1938, at the School of Dentistry, Medical College

of Virginia. The meeting was attended by Dr. McCrea and Dr. Dobbs of the Faculty.

THE AMERICAN ASSOCIATION OF ANATOMISTS

The American Association of Anatomists will hold their annual meeting in Boston during the Easter holidays. The meeting will be sponsored by the medical schools located in Boston.

THE FIVE STATE CLINIC

The Five State Post Graduate Clinic, sponsored by the District of Columbia Dental Society, will be held March 5-9, 1939, at the Mayflower Hotel, Washington, D. C.

OMICRON KAPPA UPSILON

The Phi Chapter, Omicron Kappa Upsilon Fraternity, held its annual Banquet and Convocation on Wednesday, June 1, 1938, at the Southern Hotel, Baltimore. The attendance was the largest in the history of Phi Chapter. After the banquet Dr. George M. Anderson presented the 1938 graduates, who were then inducted into the fraternity. They were:

EUGENE DAVISSON LYON
SIDNEY E. LIBERMAN
CARL ELLIOTT BAILEY
FLOYD WARREN NEAL
JACK MENEFEE MESSNER
GEORGE CARL KRAUS
EDMOND FARMHALS MARSH
FRANK PETER CAMMARANO

Dr. Oren H. Gaver presented the following Alumni and Faculty members for induction:

WILLIAM LORICK KIBLER '13
JOHN ANTHONY TANSEY '13
GUY O. LYON '15
MORRIS CRAMER '17
MILES STANDISH BUCK '18

EDWIN G. GAIL '18
DAN OTTO VIA '18
JOHN L. ASHBY '23
GLENN CARTER '23
WILLIAM R. KISER '23
LESTER C. GALLEN '28
WILLIAM BRYDON LAUTEN '28
CONRAD L. INMAN '15 (*Faculty*)

Dr. C. Willard Camalier, who had been selected as the Honorary Member, was presented by Dr. J. Ben Robinson.

Following the presentation of the new members, Dr. Ivan E. McDougale, Professor of Economics and Sociology, Goucher College, was introduced by Dr. Burt B. Ide. Dr. McDougale delivered the address of the evening, which was thoroughly enjoyed by all present.

The annual Convocation and Banquet of Omicron Kappa Upsilon is one of the most pleasant of the Commencement Activities of the School and is attended by members from many of the Eastern States.

Officers of the Phi Chapter are:

President: J. A. DAVILA '15.
Vice-president: GEORGE C. KARN '23.
Secretary-Treasurer: BRICE M. DORSEY '27.

PSI OMEGA ALUMNI

The officers and members of the Oriole Chapter extend greetings and salutations to all readers of the JOURNAL, and a cordial invitation to all "Old Timer" Psi Omegas to affiliate with this, the Alumni, Chapter.

Those who do belong look forward to the monthly luncheons held at the Chapter House, located at 1111 St. Paul Street, the Tuesday following the regular monthly meeting of the Baltimore City Dental Society. The only fault anyone can find in these noon luncheons is that there is too much to eat. The members who attended the December meeting

feasted on wild geese, the geese being supplied by members of the Chapter who had taken a day off to go hunting. After stuffing themselves the members proceeded to "stuff" their ballots by electing the following officers for 1939:

President: DR. C. ADAM BOCK.

Vice-president: DR. WALLACE INMAN.

Secretary: DR. D. ROBERT SWINEHART.

Treasurer: DR. ELMER F. COREY.

Editor: DR. NORVAL H. McDONALD.

THE WOMEN OF PSI OMEGA

After our Annual Outing at the Iriquois Club in June, we took a needed rest through the summer.

Our activities were renewed by a perfectly grand dance on Armistice night at the Longfellow Hotel. In December we held our third Annual Luncheon at the Psi Omega House. Dr. Daniel Shehan, Grand Master of the Oriole Alumni Chapter, made an excellent address to the ladies.

We are all working very hard to make a success of a benefit performance to be held at the Vagabond Theatre on February 8, 1939, when we shall see "The Royal Family" by George Kaufman and Edna Ferber.

Our monthly Card Party is still being held on the third Wednesday of every month, at which we have very sociable and enjoyable evenings. During the past few months we have made several improvements at the Fraternity House. Among the outstanding ones are the two lovely old and original chandeliers in the living-room and the music room which we have had converted entirely to electricity.

XI PSI PHI ALUMNI

The alumni of the Eta chapter have had several dinner meetings during the past year and are continuing to do so in 1939.

The alumni are also meeting with the active chapter once a month for a dinner so as to effect a closer relationship between the two groups.

The officers of the alumni, Dr. John Hyson, president; Dr. Filbert Moore, secretary; and Dr. Ralph Hodges, treasurer, wish to extend to all "Zips" a hearty invitation to attend the dinner meetings.

XI PSI PHI WOMAN'S CLUB

The Xi Psi Phi Woman's Club opened the winter activities with a very gay dance on November 19, at the Hotel Emerson. Billy Antrim's orchestra furnished the music. The dance was a huge success, despite the dreary weather.

At the regular January meeting the club voted to offer Mrs. Russell a life membership. She is the wife of Dr. A. Y. Russell, who has recently retired from active practice. There will be a luncheon meeting February 1, 1939 in the Chesapeake Room at the Emerson. Mrs. Russell is to be the guest of honor.

The club plans to sponsor the magic show staged by the Osiris Club soon after Easter.

Officers

President: MRS. GEORGE FITZGERALD

Vice-president: MRS. A. Y. RUSSELL

Secretary: MRS. D. C. BROWNELL

Corresponding secretary: MRS. CHARLES FALLON

Treasurer: MRS. C. M. TRETIN

ALPHA OMEGA ALUMNI

The Baltimore Alumni Chapter moves decisively along with the rest of Alpha Omega in purposeful endeavor and enduring achievement.

At our opening meeting of the year, we held memorial services for those of our fraters who have passed away. At our second meeting, the alumni club, ladies auxiliary and members of the under-

graduate chapter spent a most enjoyable evening with our guest speaker, Dr. Louis Kraus, of the teaching staff of the School of Medicine, University of Maryland. Dr. Kraus, who, besides being a practicing physician and Professor of Medicine, is well known as an archaeologist, showed motion pictures of excavations in Palestine.

In December, we celebrated our 31st anniversary by holding our annual formal Founders' Day dinner dance at the Lord Baltimore Hotel. Also in December, we were fortunate in having Dr. Gerald Brandon give us his technic for restoring gingival cavities.

For our next meeting, we are fortunate in having Dr. Daniel Ziskin, of New York City, as our guest. Dr. Ziskin will speak on Periodontia.

We take keen pleasure and pride in the election of Dr. Harold Goldstein to the rank of F.A.C.D.

And we rejoice with organized Dentistry and with organized and unorganized decency in hailing the new Dental Practice Act and our Frater, Dr. Harry Levin, for his great contribution to the campaign against the Neon contingent. We tendered Dr. Levin a testimonial dinner on January 5—the first testimonial accorded anyone of our group in a decade.

Chancellor: DR. JACOB LAZARUS

Vice-chancellor: DR. JESSE TRAGER

Scribe: DR. DAVID WILLER

Treasurer: DR. LEON SELIGMAN

Sergeant-at-arms: DR. MAX BAKLOR

Editor: DR. EMANUEL HOFFMAN

SIGMA EPSILON DELTA ALUMNI

Last year was an enlightening one for the members of the Graduate Chapter. A number of interesting clinics and papers were delivered to us, most of them by our own diligent members.

Dave Fruchtbaum's presentation of a clinic on "Practical Hints in Dentistry"

was very instructive. He brought with him a satchel full of models, teeth, gadgets and other paraphernalia, and we spent an interesting hour listening and asking questions.

The year could not pass without a clinic from our dexterous and ambitious Artie Britowich. He gave two informative presentations: one a paper entitled "The Value of Ultra-Violet Light in Dentistry"; the other, an admirable demonstration with the patient in the chair. He went through the entire technic of closed mouth impression taking.

A prominent physician, Dr. Mandy, delivered a comprehensive up-to-date talk which aroused much discussion. His topic was "Pregnancy and Its Relation to Dentistry."

A beautiful commemorative picture of our late beloved Brother, Murray Aaronson, was placed in the Memorial Room at the fraternity house.

Master: D. P. FRUCHTBAUM

Chaplain: S. H. HOMEL

Scribe: SAMUEL HANIK

Treasurer: HENRY ROSTOV

Inner Guard: A. F. SIDLE

Outer Guard: I. ABRAMSON

Historian: MEYER GOTTHELF

PERSONALS

Dr. Carroll D. Dern '32 was married to Miss Helen Algire Horner on June 30, 1938.

Dr. Martin A. Liddy '33 was married to Miss Catharine Marie Duffy on October 25, 1938.

Dr. Arthur D. Jorjorian '35 was married to Miss Gladys Burt on October 23, 1938.

Dr. Francis A. Sauer '35 was married to Miss Mary Audrey Herman on June 21, 1938.

Dr. Harry William Mitten, Jr. '36 was married to Dr. Carlotta A. Hawley '36 on November 11, 1938.

Dr. Vernon D. Kaufman '36 was married to Miss Louise H. Lewis on April 23, 1938.

Dr. Gerald M. Niebergall '36 was married to Miss Margaret Elizabeth Snyder on June 18, 1938.

Dr. B. Wallace Inman '36 was married to Miss Dorothea Irene Willschlager on September 7, 1938.

Dr. Albert T. Clewlow '37 was married to Miss Pauline Cecilia DiGristine on September 14, 1938.

Dr. Edgar L. Bessette '32 and Mrs. Bessette announce the birth of a daughter, Roberta Jane, on May 17, 1938.

Dr. Harry M. Reid '32 and Mrs. Reid announce the birth of a son, Harry Mitchell, Jr., on July 4, 1938.

Dr. Albert C. Cook '33 and Mrs. Cook announce the birth of a son, Allan Douglas, on November 23, 1938.

Dr. William B. Costenbader '35 and Mrs. Costenbader announce the birth of son, William Benjamin, Jr., on July 21, 1938.

Dr. Harry W. Fallowfield '35 and Mrs. Fallowfield announce the birth of a son, William Harris, on August 27, 1938.

Dr. Merchline M. Riddlesberger '36 and Mrs. Riddlesberger announce the birth of a son, James Mills, on June 15, 1938.

Dr. Eugene Davisson Lyon (Magna Cum Laude 1938) has been awarded a two-year fellowship in Bacteriology, Oral Diagnosis and Oral Surgery under the Mayo Foundation in the University of Minnesota. Dr. Lyon is at present interning in the Johns Hopkins Hospital.

Dr. Irving Sofferman '28 has been appointed Instructor in Crown and Bridge Technique, Dental School, New York University.

OBITUARY

Dr. James Monroe Riley (U. of Md. '86) died on September 7, 1938.

Dr. George Lewis Wilcox (U. of Md. '88) died on April 14, 1938.

Dr. Vernon D. Shaffner (U. of Md. '98) died on March 12, 1934.

Dr. J. Stanton Rockwell (U. of Md. '01) died in May, 1937.

Dr. Arthur B. Cardner (B. C. D. S. '07) died on January 7, 1938.

Dr. Ray C. Marford (B. C. D. S. '08) died recently.

Dr. David J. Malloy (B. C. D. S. '15) died on November 12, 1938.

Dr. Abraham H. Mendelsohn (U. of Md. '14), died on January 23, 1939.

Dr. Charles E. Wingo (U. of Md. '11), died on January 25, 1939.

STUDENT ACTIVITIES

FIRST PREDENTAL CLASS

THE good ship '44 has been launched and, after several weeks of both fair and stormy weather, is well on its way. The passenger list is composed of students who, although they have come from every point of the compass, all want to sail the same course through life.

After a few weeks out to sea, the ship's officers were chosen:

President: CARL EBERLING, Baltimore.

Vice-president: HAROLD WITMAN, Newark, N. J.

Secretary: DON FALES, Baltimore.

Treasurer: SANFORD KIRSHEN, New York, N. Y.

Historian: M. H. HOLLANDER, Baltimore.

Sergeant-at-arms: OWEN WALKER, Catonsville, Md.

Student Activity Representative: ROBERT SMITH, Harrington, Del.

SECOND PREDENTAL CLASS

With the initial obstacle of our dental career under our belt, we are now endeavoring to escape an epidemic of dementia praecox resulting from physics, organic chemistry, and the like. Following in the footpaths of tradition, the senior predental class finds itself with a team of twenty-two determined future dentists remaining in the lineup.

The class has received five replacements to fill the vacancies: Miss Virginia Moffett, the restraining influence of the class, from Catonsville; Phil Amatrudo, from New Haven, Conn. via Loyola; Al Martino, from Villanova and Hartford, Conn.; Martin and Cerney, both local boys, transfers from the School of Pharmacy; and Robinson, from Panama.

The annual business of electing class officers has taken place and the results are as follows:

President: MIKE LILOIA, Nutley, N. J.

Vice-president: M. WILKINSON, North Arlington, N. J.

Secretary: MISS VIRGINIA MOFFETT, Catonsville, Md.

Treasurer: R. K. TONGUE, Baltimore.

Sergeant-at-arms: H. S. LEVY, Baltimore.

FRESHMAN CLASS

Here we are, 65 students who have spent at least 2 years in college and yet, are still freshmen. This fact sounds almost like a statement of retrogression; but, in reality, our rank represents progress of which we are all proud. Our entering this famous Dental School marks the embarking on a new journey, the course of which we hope to follow the rest of our lives.

Early in the year, after having been initiated into the rigors of Anatomy, Histology, Physiology, Dental Anatomy, Prosthetics and Physiological Chemistry, the class received inspiring talks by Dr. Robinson and Dr. Ide. Soon afterwards, an election of officers was held, with the following results:

President: JOSEPH M. TIGHE, Baltimore.

Vice-president: IRVIN O. KOLMAN, Trenton, N. J.

Secretary: STEWART EVERSON, Washington, D. C.

Treasurer: J. BEN POWELL, Clinton, N. C.

Sergeant-at-arms: ALBERT P. LASAUSKAS, Baltimore.

Historian: JOSEPH T. COROSO, Hartford, Conn.

Student Activity Representative: LEWIS C. TOOMEY, Elkridge, Md.

As we past pre-dents represent the

newest addition to the intimate family of prospective dentists, it might be well to present some of the class statistics. Our oldest member is 33; the youngest, 18 years old. The average age is 21.5 years. Seventeen classmates hold Bachelor degrees. Although representatives of all points of the compass make up the body of the class, there is a great preponderance of Yankees; and there are 4 students from the Latin-American countries. The class members come from the following colleges and universities: New Hampshire, Cornell, New York, Maryland, Johns Hopkins, City of New York, Louisville, Penn State, Manhattan, Dickinson, Lebanon Valley, Syracuse, Roanoke, William and Mary, Marshall, Villanova, Graceland, Bucknell, Temple, Porto Rico, West Virginia Wesleyan, Fairmont State, Catholic, Connecticut, Alabama, Occidental, North Carolina, West Virginia, Franklin and Marshall, Pennsylvania, Providence, and Bergen Junior.

SOPHOMORE CLASS

All of us can still recall vividly that era of low feeling created principally by the everlasting presence of "fumes and gas." Now we stare into the future—in fact, almost to the clinic floor. At long last we can grasp at the coat-tails of the profession that will be ours. Visions of white coats and real human patients are almost a reality. Even now subjects of the past year are associating themselves; whereas before courses were only so much "stuff" to memorize the night before a quiz.

We are now what you'd call the "in-betweens." Considering everything, we haven't changed much. Bud Haggerty found himself a fine wife—congratulations; Hawkins and Jim Easton are still fighting desperately to disprove the old

adage, "hair today—gone tomorrow"; and Aurbach, our Southerner, has perfected a slower drawl.

Our new officers are:

President: GEORGE REUSCH, Cranford, N. J.

Vice-president: STANLEY HELLER, Bronx, New York.

Secretary: JOHN CALLAWAY, Beckley, W. Va.

Treasurer: KENNETH KORNREICH, Waterbury, Conn.

Sergeant-at-arms: WILLIAM COLLINS, Belkows Falls, Vermont.

Student Representative: JIM EASTON, Romney, W. Va.

JUNIOR CLASS

President: BERNARD RANDMAN, White-stone, Long Island.

Vice-president: JOHN T. BONHAM, Charleston, W. Va.

Secretary: BEN DIAMOND, Roanoke, Va.

Treasurer: BURTON LITCHMAN, Edgewood, R. I.

Sergeant-at-arms: Horace Westcott, New London, Conn.

Historian: EUGENE L. PESSAGNO, Baltimore.

Student Activity Representative: GEORGE LOWANDER, Queens Village, N. Y.

Our schedule this year was changed by the substitution of Principles of Medicine for Prosthetics; we have already had more Prosthetics than former classes. The cancellation of Prosthetics gives us an extra afternoon in the clinic.

The class of '40 is fortunate in having had a high percentage of its members elected to Gorgas, the honorary scholastic fraternity.

The advantage of being in a small class is now apparent since patients are more plentiful than in previous years, and we are engaged in a busy and successful year.

SENIOR CLASS

The first part of the senior year, what was left of 1938, was filled with the usual class activities, the first being selection of class officers:

President: B. D. EDGAR, Viola, Illinois.

Vice-president: I. S. WEINER, Hartford, Conn.

Secretary: I. W. EICHENBAUM, New Haven, Conn.

Treasurer: R. BLAIS, Holyoke, Mass.

Sergeant-at-arms: L. J. Shaudis, New Philadelphia, Penn.

Historian: M. I. KADER, Baltimore.

Student Activity Representative: K. V. RANDOLPH, Lost Creek, W. Va.

In November Dr. Gaver and Mr. Foley started our thinking about theses and their various complications.

We wish to express appreciation to the "Deems Digest" for contributing a daily dose of humor in the clinic by posting cartoons all over the requirements so that they do not look so ominous.

One member of our class set a precedent for the year—Sidoti is now a proud father.

There is little time, and much to be done before June, but there are many in the class who fervently wish that it were quality and not *quantity* that counts, in the final analysis.

THE GORGAS ODONTOLOGICAL SOCIETY

Gorgas has resumed its place as a leader in school activities. The opening meeting was called early in the fall, at which the program of the year was clearly outlined and discussed. A list of all the juniors and seniors eligible for membership in the society was presented to the members. A dance and banquet for the initiation of the new members was held at the Southern Hotel on November 22. This affair was really a notable occasion not only because of the members but also

because of the presence of prominent guests. Dr. T. O. Heatwole, who was the Dean of the Dental School at the time of the founding of the Society, presented the keys to the initiates. Dr. Adam Bock, an alumnus of the Society, acted as the master of ceremonies. Dr. Gorgas, the son of the founder of the society, was present for the first time in the history of Gorgas and gave a synopsis of his father's life. The guest speaker of the evening, Gardner P. H. Foley, instructor in English, gave a very intellectual and deeply cultural speech on "Post-Prandial Jocundities." A more revealing interpretation of his speech for most of us would be "After Dinner Pleasantries." The dance following the banquet climaxed a most illustrious affair.

The officers of the Society for this year of 1938-1939 are:

President: DORSEY R. TIPTON, Baltimore.

Vice-president: I. L. MAISLEN, Hartford, Conn.

Secretary: MISS V. E. JAMES, Milford, Del.

Treasurer: M. I. Meyers, Washington, D. C.

Sergeant-at-arms: A. W. Morris, Salisbury, Md.

Historian: M. Miller, Baltimore.

DENTAL SCHOOL DANCE

On October 22, 1938 the Third Annual Dental School Dance was held at the Maryland Casualty Building. Excellent music was supplied by Bob Iula and his orchestra. Also there was an interesting and varied floor show. The attendance included many faculty members and more than six hundred students and their guests.

THE FRATERNITIES

XI PSI PHI, ETA CHAPTER

Meetings are held on the first Friday of every month at the Longfellow Hotel.

They are attended by the alumni, as well as by the active members. At the last meeting Doctors B. B. Ide, M. E. Coberth, B. M. Dorsey, F. L. Moore, and J. M. Hyson were present.

During the first semester, a dance under the auspices of the Women's Auxiliary was held at the Hotel Emerson. The Auxiliary is also planning a combined dance and magical exhibit for the benefit of crippled children, to be held after the mid-year examinations.

The following officers were elected this year:

President: K. V. RANDOLPH, Lost Creek, W. Va.

Vice-president: J. C. DAVIS, Baltimore.

Secretary: C. H. FALLON, Trenton, N. J.

Treasurer: H. J. HOFFACKER, Hanover, Penn.

Scribe: W. J. NOON, JR., Providence, R. I.

Historian: E. E. SHEA, Hartford, Conn.

Sergeant-at-arms: H. H. GRIESBACH, Naugatuck, Conn.

Doctors M. E. Coberth and F. L. Moore are the Deputy Supreme President and the Assistant Supreme President of the fraternity.

DELTA SIGMA DELTA, XI XI CHAPTER

The year 1939 marks the fifty-seventh anniversary of the founding of Delta Sigma Delta. Delta Sigma Delta has advanced until today it has a total of thirty-two chapters, with an even larger number of auxiliary chapters scattered throughout the world.

The XI XI Chapter was founded at the University of Maryland in 1931. Although it is a comparatively new fraternity, it is rapidly progressing.

This year's officers are as follows:

Most Worthy Master: W. F. MELSON, Wilmington, Del.

Treasurer: D. WRIGHT, Greenville, N. C.

Historian: E. T. ROGERS, Waterbury, Conn.

Scribe: R. C. CAVALLARO, Branford, Conn.

Tyler: J. ALLAN, New Martinsville, W. Va.

Secretary: B. CHAN-PONG, Trinidad, B. W. I.

ALPHA OMEGA, ZETA MU CHAPTER

Zeta Mu has not undergone many changes this year. The full complement of neophytes has been pledged under the able direction of Irving Eichenbaum, chairman of the initiation committee. The usual fraternity functions have been carried on with their customary success. Dr. McCarthy's address to the chapter on Dental Ethics created a great deal of interest, and was as instructive as it was interesting. Dr. McCarthy's address inaugurated this year's lecture series. The next speaker was Dr. Kraus of the School of Medicine, who spoke on his particular field of interest, archaeology.

The Women's Auxiliary, with their usual activity in behalf of the House, have planned new decorations, the installation of which is anticipated in the near future.

Founders Day was marked by a formal dinner dance in the Florentine Room of the Lord Baltimore Hotel. Dr. William Rich of New York City delivered an excellent address to the assembled students, alumni, and guests.

The following officers were elected this year:

Chancellor: I. MAISLEN, Hartford, Conn.

Vice-chancellor: M. KADER, Baltimore.

Scribe: K. KORNREICH, Waterbury, Conn.

Quaestor: S. HELLER, Bronx, N. Y.

Historian: L. SCHILLER, Newark, N. J.

Sergeant-at-arms: E. ROSENBERG, Jamaica, N. Y.

The Praetor of the chapter is Dr. William Kress, who was recently appointed to the faculty of the School.

SIGMA EPSILON DELTA, EPSILON CHAPTER

The annual smoker was held early in in October at the Fraternity House located at 2336 Eutaw Place. Over seventy-five persons, including active fraters, alumni, and guests, were present. The entertainment for the evening was followed by buffet refreshments. Following the smoker, a Hallowe'en dance was held at the House. This dance was well attended and served to start a series of Saturday Night Dances which are held at the House. The 1938-39 lecture series was initiated by Dr. Marion W. McCrea, who delivered a very interesting talk on Dental Granuloma, supplemented by photographic slides.

The newly elected officers are the following:

Master: B. RANDMAN, Whitestone, N. Y.
Chaplain: B. LITCHMAN, Edgewood, R. I.
Historian: S. BELINKOFF, Weehawken, N. J.

Treasurer: B. HOFFMAN, Newark, N. J.
Scribe: D. BERMAN, Baltimore.
Inner Guard: M. STORCH, Passaic, N. J.
Outer Guard: J. COHEN, Baltimore.

PSI OMEGA, PHI ALPHA CHAPTER

Two dances have been held this year: a Hallowe'en Dance at the House on Saturday, October 29; and a House Dance on Saturday, December 17.

The officers elected for this year are:
Grand Master: E. R. STINEBERT, Baltimore.

Junior Grand Master: J. BONHAM, Charleston, W. Va.

Secretary: J. McCRACKEN, Cameron, W. Va.

Treasurer: A. MORRIS, Salisbury, Md.

House Manager: E. GANE, Hartford, Conn.

Pledge Master: C. TINSLEY, Lynchburg, Va.

Chaplain: O. JOYCE, Arnold, Md.

Editor: D. TIPTON, Baltimore.

Historian: G. BLEVINS, Centreville, Md.

Senator: F. KRUG, Baltimore.

Outside Guardian: G. GORSUCH, Dundalk, Md.

Inside Guardian: M. VARIPATIS, Baltimore.

Chief Interrogator: R. JAKOB, Norwalk, Conn.

APPLICATION FOR MEMBERSHIP

NATIONAL ALUMNI ASSOCIATION OF THE BALTIMORE COLLEGE OF
DENTAL SURGERY, DENTAL SCHOOL, UNIVERSITY OF MARYLAND

Name.....

Address.....

School..... Year.....

A check for \$3.00 should accompany this application to cover dues for one year, including subscription to the *Journal*.

Tear out and mail to Dr. Howard Van Natta, Treasurer, National Alumni Association, Medical Arts Building, Baltimore, Maryland.

CHANGE OF ADDRESS

The Editorial Committee is making every effort to maintain a complete and accurate file of our alumni. This is a difficult task, and cannot be done without the aid of our graduates. We therefore request every one when changing his residence to fill in the accompanying form.

Name.....

Old Address.....

New Address.....

Tear out and mail to Editor, The Journal of the Baltimore College of Dental Surgery, Dental School, University of Maryland, Lombard and Greene Sts., Baltimore, Maryland.

The Journal of the Baltimore College of Dental Surgery, is a non-proprietary dental journal, owned and published by the Faculty, Undergraduate Body and the Alumni Association of the Baltimore College of Dental Surgery, Dental School, University of Maryland; and the Grieves Library Foundation of the Maryland State Dental Association.

Purposes of this journal are (1) To create a closer, harmonious relationship between the Alumni, the Faculty and the Students; (2) To keep members of the Alumni Association informed as to the progress of their organization; (3) To afford the means for publication of alumni writings; (4) To present to the Student Body an opportunity for instruction in the preparation and publication of writings; (5) To present reviews and abstracts of recent literature; (6) To present case reports of interest; (7) To familiarize the Alumni with the activities of the Clarence J. Grieves Library.

Policies. The Editor and publishers are not responsible for opinions expressed by authors of contributions appearing in this journal. The Editor reserves the right to reject any contributions which in his opinion are not of the standard desired. Articles must be contributed solely for publication in this journal. Permission to reprint in non-proprietary journals will be granted upon request.

Advertising. Recognizing a responsibility to an advertising section, the Editor will adhere strictly to the principles governing advertising adopted by the American Association of Dental Editors which are as follows: (1) Only such therapeutic remedies or dentifrices as have been approved by the Council on Dental Therapeutics of the American Dental Association shall be advertised.

(2) Advertisements of products not under the jurisdiction of the said Council shall be acceptable only if they meet the requirements of (a) truth in statement, (b) reasonableness in claim and (c) dignity in presentation.

(3) Advertisements shall be confined to the Advertising section, to the inside and outside of back cover. In keeping with this provision, advertisements shall not be distributed on or among the pages devoted to professional affairs.

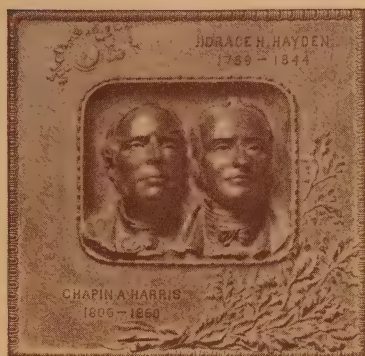
(4) Complimentary references to advertisers of their products (commonly referred to as "Puffs" or "Boosts") shall be avoided, but it shall not be considered improper to refer to the advertisers as a group.

(5) Only such advertisements shall be acceptable as are frankly presented as advertising. No advertisements shall be acceptable that have the appearance of being scientific articles, editorials, or anything other than advertising, for they would not meet the requirements of honesty and integrity specified.



The Journal *of the* BALTIMORE COLLEGE OF DENTAL SURGERY

DENTAL SCHOOL
UNIVERSITY OF MARYLAND



June, 1939

Program Number

Alumni Meeting and Commencement Activities



THE JOURNAL
of the
BALTIMORE COLLEGE OF DENTAL SURGERY
DENTAL SCHOOL
UNIVERSITY OF MARYLAND

VOL. 3

No. 2

Contents for June, 1939

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The Journal of the Baltimore College of Dental Surgery, is published *irregularly* by the Faculty, Undergraduate Body and the Alumni Association of the Baltimore College of Dental Surgery, Dental School, University of Maryland; and the Grieves Library Foundation of the Maryland State Dental Association.

THE CENTENARY PROGRAM

DENTISTRY throughout the world has looked forward to celebrating its one-hundredth anniversary. It has been felt that on that significant occasion dentists in all lands should come together as fellow members of a great undertaking to commemorate the founding of the profession, to review its achievements and to dedicate themselves to the work that lies ahead.

It is a pleasure to know that plans are already far advanced for holding a Dental Centenary Celebration in Baltimore on March 18, 19 and 20, 1940. It was in this city in 1840, that the immortal Horace H. Hayden and Chapin A. Harris established the first dental school, with Hayden its president and Harris its dean. During the same year the first national dental society was organized, of which Hayden served as first president and Harris, as first secretary. In the previous year Harris had already begun publication of the first dental journal. Thus these two men were mainly responsible for organizing an autonomous profession based upon the broad and ample foundation of schools, societies and literature.

Universities, colleges and scientific bodies throughout the world will join in academic sessions to memorialize the Baltimore College of Dental Surgery, the first dental school. Local and national sessions will be addressed by noted lay and professional speakers. Pageants during the evenings will portray with dramatic splendor the founding of the profession and other conspicuous events in its history. Dental colleges, health bodies and individuals will put on historical and scientific exhibitions. These will depict the evolution of every phase of dentistry—interesting because of their historic data and particularly valuable because of their presentation of the latest developments in all subjects. Invitations are already being extended to essayists who will appear before the scientific sessions. These sessions also will embrace every phase of dentistry and will be addressed by men chosen for their particular ability to speak authoritatively on the subjects assigned to them. The Association of Dental Manufacturers is planning to join in the Celebration with a complete display of dental equipment. Entering into the spirit of the occasion this exhibit will show the interesting developments of many kinds of dental equipment, as well as all of the latest achievements in dental manufacture. It will all be there, a liberal dental education, crowded into three busy days and nights, with emphasis on dental History and Science.

The time of the Dental Centenary Celebration is now less than a year away. As the details of the plans of the Committees are worked out, the members of the alumni will be kept informed of what will be in store for them. Of course, there still remains a tremendous amount of work to be done; but at this time everything indicates that the Centenary Celebration will itself be one of the outstanding events in dental history. Under such favorable circumstances, it should be.

THE BALTIMORE COLLEGE OF DENTAL SURGERY
DENTAL SCHOOL
UNIVERSITY OF MARYLAND

THE FACULTY AND THE ALUMNI ASSOCIATION

announce

THE ACTIVITIES

for

THE ALUMNI AND THE GRADUATING CLASS

COMMENCEMENT WEEK

at

BALTIMORE

June 1, 2, and 3, 1939



COMMENCEMENT EXERCISES

at

COLLEGE PARK

June 3—11.00 a. m.

[No other program will be mailed
you. On the days of the meeting ad-
ditional programs will be available.]

LIBRARY
BALTIMORE COLLEGE OF
DENTAL SURGERY



DR. HARRY CLIFTON BYRD
President of the University of Maryland

MESSAGE TO THE ALUMNI

THE year 1939-40 promises to be one of the most interesting in the history of the University. In March 1940, we shall celebrate the One Hundredth Anniversary of the founding of the Baltimore College of Dental Surgery. Ours is a proud heritage because with the founding of our school began the first instruction in Scientific Dentistry. Because of the international interest in the Centennial Celebration to be held in Baltimore to commemorate this event, the Alumni Association solicits the coöperation of every alumnus to the end that the celebration shall be fittingly and adequately staged. The officers of the Alumni Association announce with pride a constant and steady growth in membership and in the interest taken by the members in its affairs. They believe the Association truly reflects the great progress made by our School in the past ten years. The high standing of the teaching staff of the school, the tremendous improvement in the physical equipment and the increasing number of the alumni who are receiving national recognition in the profession, all of these features should be sources of distinct satisfaction to every graduate.

The committees in charge of the June Week Activities have been at work for some time on a program that promises to surpass any that have gone before. Read carefully the details of the activities listed elsewhere in the *Journal* and start planning now to attend. And by all means don't overlook the Class Reunions—what a splendid opportunity to renew old friendships!

Until June Week when I hope to see you in Baltimore, I am

Most sincerely,

ARTHUR I. BELL, *President*

Alumni Association

SCIENTIFIC PROGRAM AND ENTERTAINMENT

(All lectures will be held in the Dental School Building)

THURSDAY, JUNE FIRST

9:00 a.m.—

SENIOR PRIZE CONTESTS

COHESIVE GOLD FILLING (OPERATIVE CLINIC)

The Dr. Isaac H. Davis Memorial Medal

(Contributed by Dr. Leonard I. Davis)

FULL MOUTH OPERATIVE RESTORATION (OPERATIVE CLINIC)

The Dr. Albert S. Loewenson Memorial Medal

(Contributed by Mrs. Albert S. Loewenson)

PRACTICAL SET OF FULL UPPER AND LOWER DENTURES (PROSTHETIC CLINIC)

The Dr. Alex H. Paterson Medal

10:00 a.m.—

SYMPOSIUM ON ORAL SURGERY

Room 37

Dr. Robert Parke Bay and his associates, Drs. C. A. Reifschneider, J. H. Wilkerson, E. E. Covington, H. E. Reifschneider, W. H. Triplett, H. M. Robinson, Sr., G. E. Ward and E. H. Tonolla, will present an Oral Surgery Clinic.

12:30 p.m.—

SENIOR CLASS ASSEMBLY

Room 37

There will be short addresses by Dr. Arthur I. Bell, President of the National Alumni Association, Mr. B. Delbert Edgar, President of the Senior Class, and Dr. J. Ben Robinson, Dean of the School.

1:00 p.m.—

LUNCHEON

The Judges of the Contests, the members of the Senior Class and the visiting Alumni will be guests of the Faculty at luncheon, Longfellow Hotel, 2 West Madison St.

1:30 p.m.—

GOLF TOURNAMENT

The Annual Golf Tournament of the National Alumni Association will be held at the Five Farms Course of the Baltimore Country Club.

A valuable cup will be awarded to the person winning the championship and will remain in his possession one year, after which it shall be returned to the Chairman of the Golf Committee. The cup will become the permanent property of whoever wins the tournament three times.

Luncheon will be served at the Club House for a minimum fee for those desiring it; also a greens fee will be charged. (Bring your official club handicap card.)

All prizes will be awarded at the annual business meeting on Friday, June 2, at 12:15 p.m.

Cup Winners

1936—Dr. Louis Rossmann, '15

1937—Dr. Stuart G. Buppert, '36

1938—Dr. George E. Hardy, '26

2:00 p.m.—

LADIES ENTERTAINMENT

There will be entertainment for the visiting ladies of the Alumni, programs for which will be available at the Registration Desk of the Dental School.

7:00 p.m.—

SENIOR CLASS BANQUET AND DANCE

Emerson Hotel

Main Dining-Room

Invitations are limited to the Faculty members and their wives and the members of the Senior Class and their ladies.

All prizes, medals and honors, including the University Gold Medal for Scholarship, the Alumni Association Gold Medal for Thesis and the Harry E. Kelsey Award for Professional Demeanor will be awarded at the banquet.

7:00 p.m.—

REUNION DINNERS FOR CLASSES OF

1894	1914
1899	1919
1904	1924
1909	1929

1934

Each class arranges its dinner and place of meeting. We list below the Class Reunion Dinners Committee.

DANIEL E. SHEHAN, *Chairman*

Medical Arts Building, Baltimore

1934	—JOSEPH C. BIDDIX, JR., 104 W. Madison St.
1929	—KYRLE W. PREIS, 700 Cathedral St.
1924	—CLARENCE M. TRETIN, 223 Patapsco Ave., Brooklyn, Md.
1919	B. C. D. S.—GEORGE M. ANDERSON, 831 Park Ave.
1919	U. of M.—VICTOR H. LONG, 3301 N. Charles St.
1914	B. C. D. S.—NORVAL H. MACDONALD, Medical Arts Bldg.
1914	U. of M.—C. ALBERT RUPPERSBERGER, 4413 Belview Ave.
1909	B. C. D. S.—WILLIAM H. BAISH, Medical Arts Bldg.

- 1909 U. of M.—JOHN S. MANDIGO, 3900 Maine Ave.
 1909 B. M. C.—JOHN E. AUER, 1213 W. Fayette St.
 1904 B. C. D. S.—THOMAS R. MANAKEE, 2535 St. Paul St.
 1904 U. of M.—WALTER E. GREEN, 2958 W. North Ave.
 1904 B. M. C.—J. HOFFMAN WOODEN, 406 Morris Bldg.
 1899 B. C. D. S.—H. HAYWARD STREETT, 829 Park Ave.
 1899 U. of M.—CYRUS KURTZ, Main St., Patterson, N. J.
 1899 B. M. C.—JOHN E. SWALLOW, Medical Arts Bldg.
 1894 B. C. D. S.—WM. S. HAMILTON, 1310 S. Kelemachust St., New Orleans, La.
 1894 U. of M.—THENEAN E. HORTON, Winston-Salem, N. C.

FRIDAY, JUNE SECOND

LECTURES WILL START *PROMPTLY*

(Room 37)

10:00 a.m.—

Thomas E. J. Shanahan, D.D.S., Brooklyn, N. Y.

"THE IMPORTANCE OF TAKING CENTRIC RELATION IN FULL DENTURE CONSTRUCTION."

The mandibulograph will be demonstrated.

11:00 a. m.—

Samuel Charles Miller, D.D.S.

Associate Professor of Periodontia, New York University, College of Dentistry

"LATEST DEVELOPMENTS IN PERIODONTIA FROM A PRACTICAL VIEWPOINT."

Motion pictures of the technique of balancing occlusion will be shown.

12:00 noon—Room 37

Annual Business Meeting of the National Alumni Association.

2:00-5:00 p.m.—Clarence J. Grieves Library

"Refresher" Table Clinics

Ten table clinics will be presented on as many topics of dental practice. The clinicians, all members of the teaching staff of the School, have made special effort in arranging their subjects to be of unusual interest to the general practitioner.

1. Elimination of the periodontal pocket. Surgical-Chemical-Coagulation. Hugh T. Hicks, D.D.S.
2. Types of attachments used in bridge construction. Walter L. Oggesen, D.D.S.
3. Partial denture design and construction. James E. Pyott, D.D.S.
4. Habits and their effect on occlusion. Kyrle W. Preis, D.D.S.
5. Full denture construction. Grayson W. Gaver, D.D.S., F.A.C.D.
6. Amalgam restoration in molars. Karl F. Grempler, D.D.S.
7. Sterilization procedures in office practice. Paul A. Deems, D.D.S.
8. Gold inlays by the direct method. Douglas A. Browning, D.D.S.
9. Children's dentistry. Richard C. Leonard, D.D.S., F.A.C.D.
10. Ceramics. Ernest B. Nuttall, D.D.S.

7:00 p.m.—

ALUMNI BANQUET AND DANCE

Lord Baltimore Hotel

Calvert Room

The banquet promises an interesting and pleasant occasion where good fellowship will reign. Dancing will follow. The graduating class will be the guests of the Faculty. The banquet tickets are \$2.50 per person. Reservations may be obtained from Dr. Howard Van Natta, Treasurer, Medical Arts Building, Baltimore, Maryland. Wives and friends are invited.

SATURDAY, JUNE THIRD

11:00 a.m.—

Commencement Exercises at College Park

COMMITTEES

GENERAL ARRANGEMENTS

DR. MYRON S. AISENBERG, *Chairman*

2029 Eutaw Place, Baltimore

DR. O. H. GAVER

DR. ALEX H. PATERSON

DR. BURT B. IDE

DR. B. SARGENT WELLS

Ex officio—DR. ARTHUR I. BELL
Medical Arts Building, Baltimore

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DR. LOUIS ROSSMANN

DR. CONRAD L. INMAN

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MRS. BUCKEY W. CLEMSON

MISS KATHARINE TOOMEY

ALUMNI BANQUET

DR. C. ADAM BOCK, *Chairman*

806 Cathedral Street

DR. MEYER EGGNATZ

DR. EARL K. MEYERS

DR. JOHN T. MANLEY

DR. D. ROBERT SWINEHART

DR. ELMER F. COREY

COMMITTEES ON AWARDS

UNIVERSITY GOLD MEDAL

THE FACULTY

HARRY E. KELSEY AWARD

DR. GEORGE M. ANDERSON

DR. GERARD A. DEVLIN, AND DR. KYRLE W. PREIS

SENIOR THESIS

DR. BRICE M. DORSEY, *Director*

DR. HERBERT F. GORGAS

DR. HENRY W. JACOBS

DR. B. HOLLY SMITH

PRIZE CONTEST JUDGES

(Thursday, June 1)

COHESIVE GOLD FILLING

The Dr. Isaac H. Davis Memorial Medal

DR. HARRY E. LATCHAM, *Director*

DR. JESSE S. MYERS

DR. LEVIN F. PALMER

DR. CARL P. RUSSELL

FULL MOUTH OPERATIVE CASE

The Dr. Albert S. Loewenson Memorial Medal

DR. HARRY B. MCCARTHY, *Director*

DR. WALTER E. GREEN

DR. MYRON S. PRICE

DR. WILLIAM A. REA

PRACTICAL PROSTHESIS

The Dr. Alex H. Paterson Medal

DR. GRAYSON W. GAVER, *Director*

DR. OSCAR E. CULLER

DR. L. LYNN EMMART

DR. GEORGE J. PHILIPS

NATIONAL ALUMNI ASSOCIATION OFFICERS

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ARTHUR I. BELL

Medical Arts Building, Baltimore

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Medical Arts Building
Baltimore*Historian*DR. HAMMOND L. JOHNSTON
831 Park Avenue
Baltimore*Editor*DR. ALBERT C. ESKIN
1911 Eutaw Place
Baltimore

SENIOR CLASS OFFICERS

<i>President</i>	BENJAMIN D. EDGAR
<i>Vice-president</i>	IRVING S. WEINER
<i>Treasurer</i>	RAYMOND BLAIS
<i>Secretary</i>	IRVING W. EICHENBAUM
<i>Sergeant-at-arms</i>	LEO J. SHAUDIS
<i>Historian</i>	MARSHALL I. KADER

DEANS OF DENTAL SCHOOLS IN BALTIMORE

BALTIMORE COLLEGE OF DENTAL SURGERY

(Founded 1840)

CHAPIN A. HARRIS.....	1840-1841
THOMAS E. BOND.....	1841-1842
WASHINGTON R. HANDY.....	1842-1853
PHILIP H. AUSTEN.....	1853-1865
FERDINAND J. S. GORGAS.....	1865-1882
RICHARD B. WINDER.....	1882-1894
M. WHILLDIN FOSTER.....	1894-1914
WILLIAM G. FOSTER.....	1914-1923

MARYLAND DENTAL COLLEGE

1873-1878 (Merged B. C. D. S.)

RICHARD B. WINDER.....	1873-1878
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UNIVERSITY OF MARYLAND

(Founded 1882)

FERDINAND J. S. GORGAS.....	1882-1911
TIMOTHY O. HEATWOLE.....	1911-1923

BALTIMORE MEDICAL COLLEGE

1895-1913 (Merged U. of Md.)

J. WILLIAM SMITH.....	1895-1901
WILLIAM A. MONTELL.....	1901-1903
J. EDGAR ORRISON.....	1903-1904
J. WILLIAM SMITH.....	1904-1913

BALTIMORE COLLEGE OF DENTAL SURGERY

DENTAL SCHOOL

UNIVERSITY OF MARYLAND

(B. C. D. S. and U. of Md. Merged 1923)

TIMOTHY O. HEATWOLE.....	1923-1924
J. BEN ROBINSON.....	1924-Present

FORTY YEARS OF STUDENT ACTIVITIES

RILEY S. WILLIAMSON, '42

VERY often, the question is asked, "Why do we not have more extra-curricular activities at the Dental School?" Partly to provide food for thought on this question, partly to revive past memories in the minds of alumni, and partly to stimulate activity on the part of potential organizers in the school, this article is presented.

Below are brief summaries of student activities that existed at the various dental schools that have been located in Baltimore. Since the information was gathered from yearbooks on file in the C. J. Grieves Library Foundation, any omission of years in this record is due to the absence of yearbooks. *The Annual* and *The College Annual* were the yearbooks of the Baltimore College of Dental Surgery; the name was later changed to the *Mirror*. *Bones, Molars, and Briefs* was the annual of the University of Maryland, Dental School; the book was later incorporated in the *Terra Mariae*, published jointly by the Baltimore Schools of the University. The present yearbook is, of course, the *Mirror*.

- 1897—U. of M.: Y. M. C. A., Maryland University Senate, track and field team, baseball team, ice-hockey (league championship), football team, Gorge Club, Gormandizers Club, and Rush Club.
- 1901—B. C. D. S.: Y. M. C. A., ice-hockey team, baseball team, Mandolin, Guitar, and Glee Club.
- 1902—U. of M.: Y. M. C. A., Virginia Club, South Carolina Club, West Virginia Club, Maryland University Club, and baseball, football, and ice-hockey teams.
- B. C. D. S.: Y. M. C. A., Debating Club, Mandolin and Guitar Club, Fencing and Boxing Club, and baseball team.
- 1903—U. of M.: Y. M. C. A., North Carolina Club, Pennsylvania Club, South Carolina Club, Virginia Club, West Virginia Club; football and baseball teams.
- B. C. D. S.: Y. M. C. A., Debating Club, Bowling Club, Mandolin and Guitar Club, and Married Men's Club.
- 1904—B. C. D. S.: Y. M. C. A.; baseball, tennis, golf, bowling, and track teams.
- 1905—B. C. D. S.: Y. M. C. A., Mandolin and Guitar Club, Dramatic Club, Agony Quartette, Argyle Association; basketball, football, bowling, wrestling, boxing, and baseball teams.
- 1906—B. C. D. S.: Y. M. C. A., Agony Quartette; basketball, pool, target and trapshooting, wrestling and boxing teams.
- U. of M.: Y. M. C. A., New York Club, North Carolina Club, West Virginia Club, Cotillion Club, Craftsman Club, Musical Association; football, baseball, basketball, track, and tennis teams.
- 1907—B. C. D. S.: Y. M. C. A., Glee Club, B. C. D. S. Quartette; basketball, track, and shooting teams.

- U. of M.: Y. M. C. A., Craftsman Club, Triangle Club, Georgia Club, North Carolina Club, Glee Club, Corner Club, Midnight Oil Association, and football team.
- 1908—B. C. D. S.: Y. M. C. A., basketball team.
- 1909—B. C. D. S.: Y. M. C. A., Glee Club.
- 1910—B. C. D. S.: Y. M. C. A.; Harris-Hayden Odontological Society.
- 1911—B. C. D. S.: Y. M. C. A., Harris-Hayden Odontological Society, Musical Club.
- U. of M.: Y. M. C. A.; baseball and football teams.
- 1912—B. C. D. S.: Y. M. C. A., Harris-Hayden Odontological Society, Musical Organization.
- U. of M.: Y. M. C. A., Latin-American Club, South Carolina Club; football, basketball, and baseball teams.
- 1913—B. C. D. S.: Y. M. C. A., Craftsman Club, College Glee Club, Harris-Hayden Odontological Society.
- U. of M.: Latin-American Club.
- 1914—B. C. D. S.: Y. M. C. A., Glee Club, Orchestra, Canadian Club, Harris-Hayden Odontological Society, Dramatics, Under Liptics Club, and Snoozers Club.
- U. of M.: Latin-American Club.
- 1915—B. C. D. S.: Y. M. C. A., Glee Club, Orchestra, Harris-Hayden Odontological Society, Canadian Club, Junior versus Senior baseball game, Loud Sports Club, Dozers Frat, Tobako-Smokers Club, B. C. D. S. Gum Chewers, B. C. D. S. Red Berry Club.
- U. of M.: Cotillion Club, Bible and Debating Club.
- 1916—U. of M.: Organization of the Gorgas Odontological Society, Craftsman Club.
- 1917—B. C. D. S.: Y. M. C. A., Junior versus Senior baseball game, Harris-Hayden Odontological Society, Glee Club, The Minstrels, Canadian Club.
- 1918—B. C. D. S.: Y. M. C. A., Canadian Club, Harris-Hayden Odontological Society, Married Men's Club, Lounge Lizard Club, Bald Nut Club, Mustashitis Club, and Art Club.
- U. of M.: Latin-American Dental Society, Gorgas Odontological Society.
- 1919—B. C. D. S.: Y. M. C. A., Student Council, Harris-Hayden Odontological Society, Canadian Club, Craftsman Club, Students Army Training Corps.
- U. of M.: Gorgas Odontological Society.
- 1920—B. C. D. S.: Student Council, Junior-Senior baseball game, Harris-Hayden Odontological Society.
- 1921—B. C. D. S.: Student Council, Harris-Hayden Odontological Society, Latin-American Club, and Married Men's Club.
- U. of M.: Gorgas Odontological Society, Glee Club, The Players, Student Council; football, baseball, track, lacrosse, and tennis teams.
- 1922—B. C. D. S.: Overseas Club, Craftsman Club, Student Council, Harris-Hayden Odontological Society, Matrimonial Club.
- 1923—U. of M.: Gorgas Odontological Society, Craftsman Club, President's Council.
- 1924—U. of M.: Gorgas Odontological Society.

- 1925—U. of M.: Gorgas Odontological Society, Musical Club; basketball, baseball, track, and tennis teams.
- 1926—U. of M.: Gorgas Odontological Society, Musical Club, baseball team.
- 1927—U. of M.: Gorgas Odontological Society, Musical Club.
- 1928—U. of M.: Gorgas Odontological Society, Y. M. C. A., Musical Club.
- 1929—U. of M.: Gorgas Odontological Society.
- 1930—U. of M.: Gorgas Odontological Society.
- 1931—U. of M.: Gorgas Odontological Society.
- 1932—U. of M.: Gorgas Odontological Society, ice-hockey team (tied for State Championship).
- 1933—U. of M.: Gorgas Odontological Society, ice-hockey team (State Championship).
- 1934—U. of M.: Gorgas Odontological Society, ice-hockey team.
- 1935—U. of M.: Gorgas Odontological Society, Bowling League.
- 1936—U. of M.: Gorgas Odontological Society.
- 1937—U. of M.: Gorgas Odontological Society, The *Journal*, Student Council.
- 1938—U. of M.: Gorgas Odontological Society, The *Journal*, Student Council, golf team.

DENTAL CENTENNIAL STAMP

The Dental Centenary Committee has decided to take definite action towards getting the Postmaster-General to issue a stamp which will commemorate the centennial of the dental profession. Already designs have been submitted for examination by the postal authorities and a decision on the plans should be made very soon. The design of the stamp, which it is planned to issue in March, 1940 in connection with the Centenary Program, will probably parallel the details of the Texas stamp and of several of the Army and Navy series: portraits of Harris and Hayden with the original building of the Baltimore College of Dental Surgery forming the background.

THE CLARENCE J. GRIEVES LIBRARY FOUNDATION

THE VILLAGE TOOTHSMITH

(BY LONGBELLOW)

"DENTAL surgery had made enormous advances since his boyhood, when, he remembered, the following announcement appeared over the entrance to a blacksmith's forge which he once visited. 'Tooth-drawing, bleeding, and cupping done here.' The instrument used was called a pelican, and had a strong, sharp, hooked beak." Mr. J. W. Hulke, F.R.S., at the Dental Hospital Dinner.

Under the spreading gum-tree's shade
The village smithy stands,
The smith a busy man is he,
For when frail flesh demands,
He cups and bleeds and pulls out teeth
With his large and sinewy hands.

Week in, week out, from morn to night
You may see his clients there,
Bound hand and foot to the anvil—
For he owns not any chair—
Squealing, squirming, as he swings
The pelican in air.

Its beak is sharp and hooked and strong
To stir the stumps of man;
You shall not see so weird a thing
From Crewe to Matapan;
They look the whole world in the mouth,
He and his pelican.

The children coming home from school
Look in at the smithy door;
They love to see the pelican
And hear the patients roar,
And catch the double teeth that fall
Like hailstones on the floor.

Through the very kind permission of the publishers, Harper and Brothers, we are able to print one of our favorite parodies, "The Village Toothsmith." This poem is taken from E. V. Lucas' splendid autobiographical work *Reading, Writing and Remembering* (1932). We feel that we are rendering our readers a pleasant service by giving them this opportunity to add a fine item to their individual collections of literary material dealing with their profession. We assure you that the selection is a very good sample of the contents of the book. We

recommend it heartily to all types of adult readers. Those of you who like to read for entertainment and knowledge will undoubtedly make a discovery in Lucas. The book is primarily a record of personal reminiscences and reflections, with intimate sketches of men and women who vitalized literature and art during the period of the author's manhood. Written with an effective blend of humor and seriousness, it merits a prominent place upon your list as a book that not only will take a dentist's mind from the pressure of his work but also will give him a good lift into other fields of endeavor.

At the end of the third year of their experience, the editors of the *Journal* desire to express their hearty appreciation to the many alumni who have contributed to the organization, the publication and the maintenance of our periodical. Our job is to turn out a *Journal* which will express the activities of both students and alumni. Special efforts, of course, will reflect the thinking of both groups. Each number contains the contributions of at least fifty people, representing various phases of student and alumni interests. Volume four will form, undoubtedly, a valuable part of the School centenary observance.

One of our most capable student writers was assigned the task of finding out just what sort of outside activities the students of the dental colleges of Baltimore have indulged in during the past forty years. The result of his research, published in this issue, should be of particular interest to all our readers. The students will be surprised at the variety of activities represented in the lists; alumni will experience wistful reminiscences, also a feeling of wonder as to how they ever managed to get hold of the time demanded by such doings.

Rarely do writers of fiction spare the rod when they present dentists or dental practice in their works. Of course, they may be writing from their personal contacts with the profession, and they do know the average reader's conception of dental experience. Therefore, we are delighted to quote from G. K. Chesterton's short story "The Honour of Israel Gow." That clever and lovable detective-priest, Father Brown, says, "Now the sun is risen, the birds are singing, and the radiant form of the dentist consoles the world." This passage would make an excellent message for a dentist's Christmas card. It would look darn good framed and hung in an office.

Having had the opportunity to examine thoroughly the scenario for the pageant to be presented as one of the highlights of the Centennial Program, we wish to inform the alumni that the dramatic feature will be a splendid production. The pageant will be a cavalcade of Dentistry in the United States, with Dr. Horace Hayden as the central and coördinating character. The leading rôles will be acted by members of the Vagabond Theatre, the oldest existent little theatre in the country. The committee under the chairmanship of Dr. Noel Smith is doing a grand job on their share of the celebration program.

At the Fourth American Dental Convention, held at Cincinnati in 1858, Dr. Isaiah Forbes of Saint Louis, newly elected president, in his address on taking the chair, made a pertinent observation which we pass along to his professional posterity: "The physician's patients and mistakes are often buried together; our patients live to complain, and to exhibit the evidences of our lack of skill, or want of honesty."

HARRISON HAYDEN.

ALUMNI NEWS

COMMEMORATIVE COIN

DR. HARRY McCARTHY, chairman of the Commemorative Coin Committee, reports considerable progress has been made towards obtaining a coin which will commemorate the one hundredth anniversary of the founding of Dentistry as an organized branch of the medical sciences.

At present, the legislative committee of the American Dental Association is preparing the coin bill for Congress. Two simultaneous bills will be introduced, one in the House and one in the Senate, within a few weeks. To insure passage of the bill and to convince the national legislative bodies of the importance of Dentistry in the general health of the nation, it would be an excellent procedure for dentists to write or telegraph their representatives in Congress urging them to support passage of the bill.

The tentative design for the coin calls for the reliefs of Harris and Hayden on one side and a bas-relief of the original Baltimore College of Dental Surgery building on the reverse. It is proposed to have 60,000 coins of the fifty cent denomination minted so that every dentist in the country will be able to get one.

So don't forget, write your representative and urge him to support the bill. Convince the nation of the importance of Dentistry in the public health scheme.

FIVE STATE CLINIC

The Five State Post Graduate Clinic, sponsored by the District of Columbia Dental Society was held March 5, 6, 7, 8, and 9, at the Mayflower Hotel. Dr.

Leo A. Walzak gave one of the Registered Room Clinics on Plan for Management of Non-Advanced Periodontal Cases, as did Dr. Ernest Nuttall, who, in collaboration with Drs. Harry E. Osborn and Llewellyn Leigh of the District of Columbia, lectured on Esthetics in Porcelain Restorations, Porcelain Bridges, Jackets and Modified Denture Teeth. Table Clinics were given by other members of the faculty of the School of Dentistry: Dr. Grayson Gaver, Full Denture Construction; Dr. Karl F. Grempler, The Application of the Mortise in Cavity Preparation; Dr. Hugh T. Hicks, Elimination of the Periodontal Pocket (Surgery—Electrocoagulation Chemical); Dr. Vernon D. Kaufman, Clinical Control of Hemorrhage; Dr. James E. Pyott, Partial Denture Construction; Dr. Nathan B. Scherr, Children's Dentistry; and Dr. Orville C. Hurst, Indirect Impressions, Dies and Wax Patterns for Three-Quarter Crowns and Inlays.

FRATERNITIES AND SOCIETIES

ALPHA OMEGA ALUMNI

Our Baltimore Alumni continue to move along in true Alpha Omega tradition. Activity is ever our lot; progress, ever our guiding purpose; professional and personal excellence, ever our willful goal.

We confined our talent at the January and March meetings to Alpha Omegas. January brought us Dr. Ziskin of Columbia University, who lectured to us with slides on "The relationship of the sex hormones to periodontal disturbances." A very scholarly presentation of a scholarly problem it was indeed.

Dr. Ziskin has done valuable work, and the future holds much in store for him.

In March Dr. David Belle of Temple University presented his interesting exposition on Full Denture Prosthesis via the compound route.

Activity is brewing along convention lines—1940 convention lines. Alpha Omega's convention is scheduled for Baltimore.

SIGMA EPSILON DELTA ALUMNI

The Maryland Graduate Chapter of the Sigma Epsilon Delta Fraternity, in accord with the spirit inspired by the forthcoming centennial of the School, is planning a gala participation in its celebration.

Our annual National Convention will be held on March 16 and 17, at which time the Grand Council will convene. A series of clinics will be presented by S. E. D. men prominent in the profession. There are many convincing indications that these clinics will be as fine and as enlightening as those of past S. E. D. conventions.

One of the lighter features will be a formal initiation dance. There are also elaborate plans for other entertainments; house parties, card games for the ladies, etc. We thus feel assured that our convention will be a professional and social success and therefore urge everyone to attend.

In accordance with the custom of past years, we shall hold a stag party in June to honor our graduating members.

XI PSI PHI ALUMNI

The regular dinner meetings are being held on the second Monday of each month preceding the meeting of the Baltimore City Dental Society. Discussions of interest to the fraternity are held.

The annual smoker for the active

chapter was sponsored by the alumni and a most entertaining program was presented. The business meeting was held on April 10, at which time new officers were elected.

A cordial invitation is extended to all Zip alumni to attend their meetings and enjoy the good fellowship which prevails.

XI PSI PHI WOMAN'S CLUB

The annual meeting was held at the home of Dr. and Mrs. V. B. Ames, 1408 Eutaw Place. The following officers were elected:

President: MRS. W. L. BADGER

Vice-president: MRS. G. E. FITZGERALD

Treasurer: MRS. W. L. OGGESEN

Recording secretary: MRS. F. F. SMYTH

Corresponding secretary: MRS. T. M.

ZAMECKI

The club sponsored the Fourth Annual "Evening of Mystery" of the Society of Osiris, Magicians, on Friday, April 14, 1939, at Lehmann Hall, which proved to be very unusual entertainment. A dance was held after the show.

PSI OMEGA ALUMNI

This winter, as for several years past, the latch-string at 1111 St. Paul Street has been out the Tuesday following the regular monthly meeting of the Baltimore City Dental Society. Under the guidance of Dr. Adam Bock, President, the luncheon meetings start at twelve-thirty and end just as promptly at one-thirty, allowing ample time to partake of good food and hear a worthwhile speaker.

These meetings are enjoyed by all who attend, and all members are welcome. Former members who wish to have their names placed on the call list for these luncheons should get in touch with Dr. D. R. Swinehart, Medical Arts Building, Baltimore.

THE WOMEN OF PSI OMEGA

The Women of Psi Omega have had a very successful year under the able direction of their President, Mrs. C. Clifton Coward.

A benefit performance held in February at the Vagabond Theatre went over in a big way, both socially and financially. Monthly card parties will continue to be held on the third Wednesday of each month until June. Plans are being made to have a luncheon and card party at Olney Inn.

At the regular monthly meeting held in March the following officers were elected for 1939:

President: MRS. JAMES E. PYOTT

Vice-president: MRS. ELMER F. COREY

Secretary: MRS. JOSEPH NELSON

Treasurer: MISS KATHARINE TOOMEY

Board of Directors: MRS. HORACE DAVIS,

MRS. DAVE DANFORTH, MRS. HARRY

B. MCCARTHY, MRS. C. CLIFTON

COWARD.

OMICRON KAPPA UPSILON

The annual business meeting of Phi Chapter, Omicron Kappa Upsilon Fraternity was held in the Conference Room of the Library of the School of Dentistry on March 29. The annual Banquet and Convocation will be held on May 31, at the Southern Hotel, Baltimore.

PERSONALS

Dr. Alfred H. Schilling '35 was married to Miss Kathryn E. Wirth on March 17, 1939.

OBITUARY

Dr. Lacey Touberman (B. C. D. S. '98) died on October 14, 1938.

Dr. P. D. Brooker (U. of Md. '99) died on January 27, 1939.

Dr. John England Molony (U. of Md. '99) died on August 26, 1938.

Dr. A. A. Radcliff (U. of Md. '01) died in January, 1939.

Dr. Thomas Black (U. of Md. '13) died in 1938.

Dr. Frank L. Coroso (B. C. D. S. '22) died on February 8, 1939.

A. Dorsey Johnson, who began in 1901 his service as cashier of the Baltimore Schools, died on March 19, 1939.

DR. WILLIAM G. FOSTER (B. C. D. S. '81)

The former dean of the Baltimore College of Dental Surgery died on March 7 at his home in St. Michaels, Md. Dr. Foster succeeded his father, Dr. M. Whilldin Foster, as dean, serving from 1914 to 1923, when the B. C. D. S. was merged with the Dental School of the University. A biographical sketch of Dr. Foster will be presented in the next issue of the JOURNAL.

Make your plans NOW to attend the Alumni Meeting and the Commencement Activities. You will benefit from our program, and your classmates and friends will derive pleasure from seeing you.

STUDENT ACTIVITIES

FIRST PREDENTAL CLASS

AS WE draw near our present goal, the successful completion of the First Predental Year, we look back over the past few months and recall some of the experiences we have had. Many of them were pleasant; others were obstacles which we had to overcome. Examination week undoubtedly made the deepest impression on our young minds. Bits of humorous poetry, logarithms, chemistry quiz section, the Victorian Era, "origins and insertions," the ionization theory, lectures to the accompaniment of steam shovels, zoology practicals—all these have added either to our enlightenment or to our mystification.

We realize also that we have become acquainted with enough wild life to make a first-class zoo—or should we say aquarium?

Judging from the surprising results obtained through the "analysis of unknowns" in chem lab, it seems likely that we shall be able to supply all of the missing elements in the Periodic Table before the year ends.

Of the thirty-six who formed our original group, four are no longer with us. We miss them and wish them good luck wherever they may be. As for the rest of us, may we keep on plodding to our goal and may no threatening shadows of intramural aestivation come to darken our path.

SECOND PREDENTAL CLASS

With our predental activities at an end, we are afforded a breathing spell before actually entering the realm of Dentistry. Now, we are able to recall the various

memorable events of our predental careers.

Amatrudo is our number one college sampler and also an authority on college football. Cerny started out to be a Pharmacist, but saw the light and transferred to Dentistry. Cooper, our muscled weightlifter, is ever willing and able to set up a swing session. Cierler, the terror of the eight ball, finds that his magnificent oppression, Physics, keeps him continually behind that same ball. DiTrolio is a dyed-in-the-wool Jerseyite. Edwards, the Ohio puddler-boy, with his "Well, fellows, what are we burning today?" Greene takes as much room while dancing as he does while fishing. Krieger did his histrionic stuff in the "Baltimore Follies" at the Hippodrome. Kramer, the terror of the State Teachers College. Liloia, our president, is right up there in all the ways that count for the best. Landes has found that his years in Palestine have paid off in Public Speaking. If it were not for the Levy-O'Meara team in Public Speaking, Mr. Foley would lose many an opportunity for a well-timed remark. Leatherbury, the boy from the sticks, decided that what he needed was a little more city culture. Martin is another case in which the Dental school profited by the Pharmacy School's loss. Martino, the Villanova sophist, is the ranking hitchhiker of the class. Miss Moffett, our restraining influence, is planning to enter a medical school in Los Angeles. O'Meara, the Connecticut Yankee, adores the Washington Monument. Reilly, the Porto Rican boy, makes his place sound better than Bali. Robinson, the Panama Don Juan, arrived in the summer to get

warmed up for the academic year. Sucoll is best known for his illustrated lectures on swimming and football. Stern is the victim of G. P. H. F.'s marital ballyhoo. Shochet, the broadcaster, whose flying "peasants" gave the anthropologists something to think about. Sauerman, the taciturn member, possesses the commuting record of the year. Tongue is still the most dignified member of the class. Wilkinson got the gong from the blonde. Yalovitz, formerly the class worrier, has less to worry about now—he has begun to study. Zimmerman, the Pennsylvania Dutchman, still "wants out."

FRESHMAN CLASS

Now that members of the class have become acquainted with each other, it is well that we give some pithy notes concerning several of our feature men.

The class president, Joseph Tighe, worked for nine years for the J. R. Hunt Automotive Accessory Distributors, during which time he married. With the help and encouragement of his wife, Joe entered the Dental School in 1936, where he soon became known for his sincerity and sunny disposition. Joe's one ambition is to obtain an internship in the Johns Hopkins Hospital.

"Andy" Amatrudo has worked as assistant manager of Wilson's General Grill (New Haven), as equestrian instructor, and in the summer as bartender at the Sea Gull Night Club of Madison, Connecticut. His reason for studying dentistry is to acquire a profession, so that he may be assured of security in later life.

In addition to earning letters in baseball and basketball at the University of North Carolina, "Jerry" Stoopack also held jobs as garage mechanic, cab driver and golf caddy.

Chester Ralph worked as a lumberjack for a year in South Jersey. His desire to enter the field of dentistry is due to the influence of an elder brother, who graduated from the School and is now enjoying a successful practice.

Hans Weise lived in Germany until fourteen years ago, when he came to America and settled in New Jersey. Although he is married and has two children, his love for dentistry caused him to leave the field of architecture. His desire to enter the dental profession was instilled within him during four years he served as a dental apprentice in Germany.

Louis Murzin from Harrisburg, after distinguished achievements in athletics at prep school and college, played amateur ice-hockey for the Branford Hockey Team in the Senior B Class. His outstanding performances attracted the attention of the Hershey club. He was under contract to this team for three years. Although dentistry is foremost in his mind, he will never forget his thrilling experiences on the rink.

Donald Towson worked for the Bethlehem Steel Company for four years. The fact that he was married and had a child did not keep him from the profession he desired to practice. The courage of one who did not give up in the face of many difficulties is to be admired.

Everson joined us after a varied career in the business world. He has had many years of experience in the real estate field in Los Angeles. Giving up a splendid position Everson came to the University of Maryland to get his training for the profession he has for many years had the ambition to follow. He married a classmate while attending Occidental College, from which they graduated in 1935.

SOPHOMORE CLASS

The Sophomore Class Dance, held at the Emerson Hotel on February 4, was a gala affair. It was attended by both upper and lower classmen. The "swing" was amply supplied by the Men About Town. It was a splendid affair, one of the best features of the school year, and enjoyment was quite evident.

JUNIOR CLASS

The class is at last learning the routine of the Clinics. We never thought we could prepare a Class I cavity under less than an hour and a half, but now we can do it in thirty minutes.

Instead of the traditional annual class dance we are going to have a stag dinner. Many members of the faculty have promised to be present, and the affair should be very pleasant. It is a departure from the customary dance, and as such, should be a delightful experiment.

SENIOR CLASS

With the approach to graduation the members of the senior class find themselves in a continual state of activity spurred on by the heavy requirements in the Prosthetics and Crown and Bridge department. Just when most of us were beginning to slacken our pace with the advent of warm weather, that long list of specimen requirements was posted. Once again we found ourselves with little time for anything but clinic requirements and thesis work. Nevertheless, we have had time for a bit of reminiscing, with the usual feeling of amazement at how quickly the five years at school have passed.

There are many things Tony Carvalho hasn't lived down. We'll remind him in the reunion years to come of the day some one hung a shingle over his chair

advertising a one-cent sale—amalgams 2 for 51¢. We gaze in wonder at what is left of Auerbach's hair, which used to be so luxuriant.

Tipton has come far since his Public Speaking days; he has been in the lime-light as President of Gorgas. He never fails to use his favorite expression—"and so without further ado."

After June 3, 1939 our ways will be the ways of the professional world: interning at various hospitals, studying at various graduate schools, and practicing from Port of Spain, Trinidad to New Hampshire. Good luck to all, with a wish that we shall all return for our first reunion in 1944.

THE GORGAS ODONTOLOGICAL SOCIETY

On March 2, 1939, the Gorgas Odontological Society was fortunate to have Dr. William L. Millea of the Church Home And Infirmary address them in the Gordon Wilson Memorial Hall of the University Hospital on "The Relation of Dentistry to Pregnancy." He gave some very interesting and practical advice to Dentists from the obstetrician's viewpoint. Many members and their friends enjoyed the lecture.

THE MIRROR

Eugene Pessagno, editor of the 1940 *Mirror*, has revealed some of his plans for the 1940 book.

The 1940 *Mirror* will feature photographs galore. Pessagno plans to have a photographic editor with a staff recruited from the Junior Class. Naturally a large part of the 1940 volume will be devoted to the centennial celebration and to the development of Dentistry. Because of the small number of men to be included in the Senior Section, Editor Pessagno will have more space for the other features of the book.

THE FRATERNITIES

ALPHA OMEGA, ZETA MU CHAPTER

Since the last issue of the JOURNAL, Zeta Mu has performed its functions with earnest endeavor. Recently initiated were B. Helitzer '42, Glens Falls, N. Y., and I. Kolman '42, Trenton, N. J. The spring formal initiation dance will be held this year at the end of April.

With the aid of its alumni and a very active Women's Auxiliary, new decorations have been installed in the fraternity house at 1320 Eutaw Place. Especially noteworthy was the complete renovation of the downstairs game-room. The same spirit of coöperation from its old members has enabled the chapter to hold many successful house dances throughout the school year.

SIGMA EPSILON DELTA, EPSILON CHAPTER

It is with extreme pleasure that Epsilon announces the initiation of L. Gibel, Brooklyn, N. Y., V. Minz, Newark, N. J., H. Watsky, Mount Vernon, N. Y., C. Stoopack, Brooklyn, N. Y., L. Lichtenstein, New York, N. Y., H. Schwarz, Belle Harbor, N. Y., P. Deneroff, New York, N. Y., D. Rakowsky, New London, Conn., H. Weiss, Glenvale, L. I., and A. Herschaft, New York, N. Y. These men, all of the class of '42, were initiated on February 25, at the Annual Initiation Dinner and Dance held in the Florentine Room of the Lord Baltimore Hotel.

Our lecture series was ably continued by Dr. Harry B. McCarthy, who spoke on the "Road to Success in Dentistry." Following the talk, discussions were held; finally buffet refreshments were served. The evening proved to be highly interesting and educational to all those members, pledgees, and guests present. At another meeting, Dr. Arthur A. Britowich, of the Alumni

Chapter, presented a highly informative table clinic on "Electroplating Copper Dies for Indirect Inlay Work."

Turning to some of the lighter aspects of our fraternal life, S. E. D. again plays host to all those softball players who arise at a respectable hour on Sunday morning and who have enough energy remaining from the trials of the week to put some zest into the game.

It is with much regret that Epsilon bids farewell to its departing seniors. Plans are now being formulated for the Farewell Dinner and Dance to be tendered members of the graduating class, at which time Fraternity keys will be presented to each senior as a token of appreciation from the remaining members.

PSI OMEGA, ALPHA CHAPTER

The fog end of another scholastic year has rolled around, so now it's time to recapitulate upon the events of that year. The ledger of Father Time shows some gain, some loss. The gain: many pleasant memories. The loss: another year out of one's life.

The Psi Omega Fraternity has enjoyed one of its most successful fraternity years and justly feels proud of its record. To our faculty advisor, D. O. H. Gaver, many thanks for your coöperation and assistance; to the officers of the active chapter, congratulations for a successful stewardship; to the graduating members, success to your ventures in life; to the undergraduates, good years in the old School.

The active chapter wishes to thank the Ladies Auxiliary for their splendid theatre party and for the manner in which they have decorated the house.

Although the scope of our athletic activities is narrowed by scholastic routine, we have had time to organize

successful basketball, indoor and bowling teams. It is our hope next year to organize a regular intramural league, with the various groups competing in the above-mentioned sports.

XI PSI PHI, ETA CHAPTER

The Golden Anniversary of our fraternity was celebrated this year at the National meeting in Ann Arbor, Michigan. The Eta Chapter of the University of Maryland was represented by Brother McClees, who had the pleasure of meeting the representative from Georgetown University. Since then, a correspondence has been initiated between the two chapters, resulting in a closer contact. The Eta Chapter has been invited to attend the formal initiation of the Pledges of the Georgetown Chapter.

During Rush Week, a smoker was

given at the Lord Baltimore Hotel to acquaint the Freshman class with the fraternity. Refreshments, entertainment, and souvenirs were plentiful and the affair, to all appearances, was very successful.

The Chapter feels rather proud of two members who so loyally celebrated St. Patrick's Day. On March 17, "Bill" Noon and "Ed" Shea, dressed in various shades of green from head to foot, walked into their Dental Jurisprudence lecture just one-half hour late. Very timely was this interruption, indeed, since the subject then under discussion was "Malpractice Due to Alcoholism." Although the boys were perfectly sober, the desired effect was obtained. Their natty attire was so well received by the senior class that they were sent to each department in the school for inspection.

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OF THE BALTIMORE COLLEGE OF DENTAL SURGERY

Dental School, University of Maryland

Lombard and Greene Sts., Baltimore, Maryland

I will attend the Alumni meeting.

Please reserve for me _____ tickets for the Alumni Dinner, June 2.

I ☐ will ☐ not play golf. My handicap is ()

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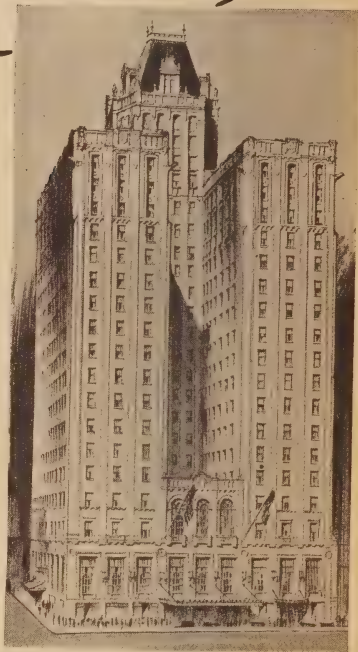
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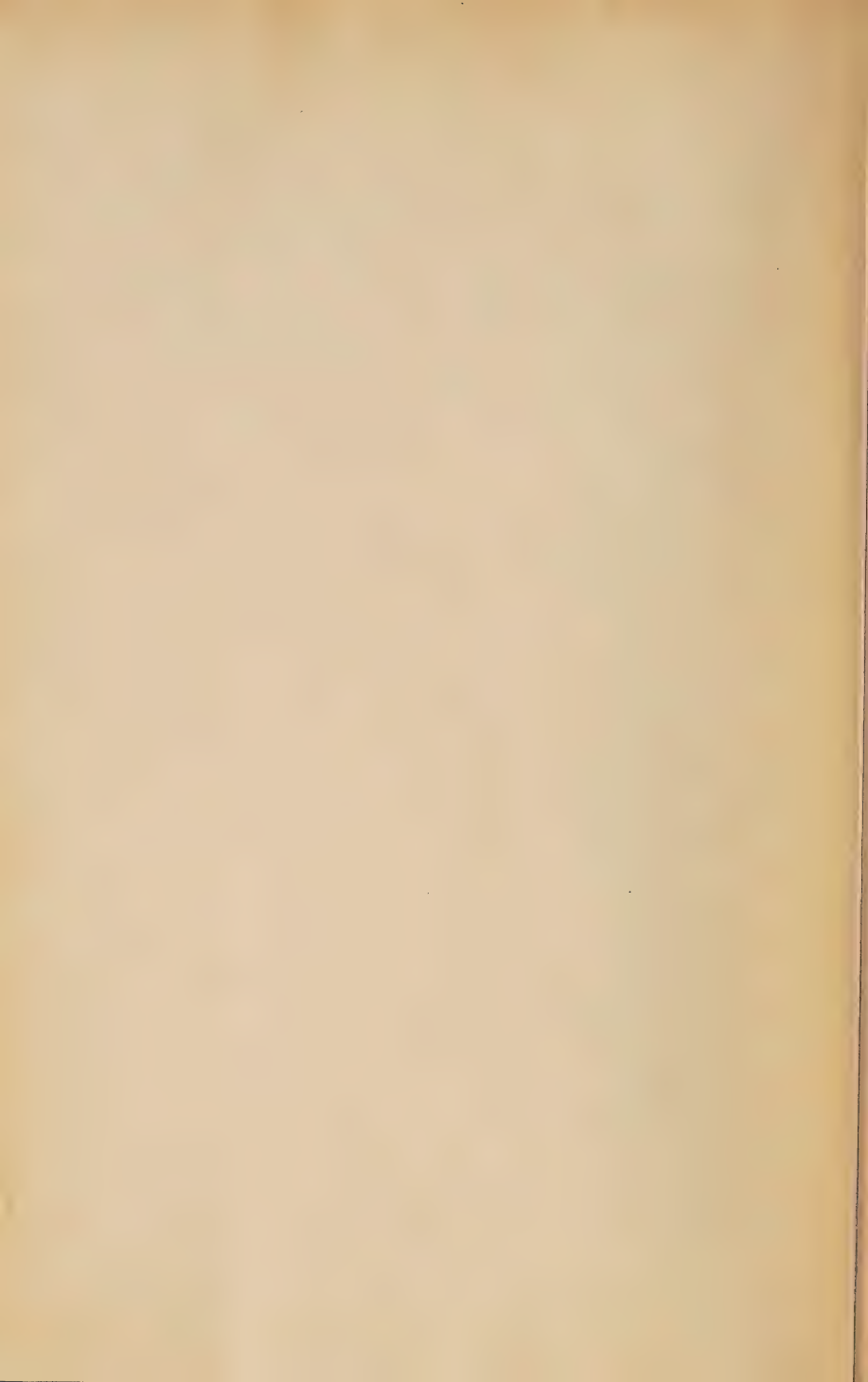
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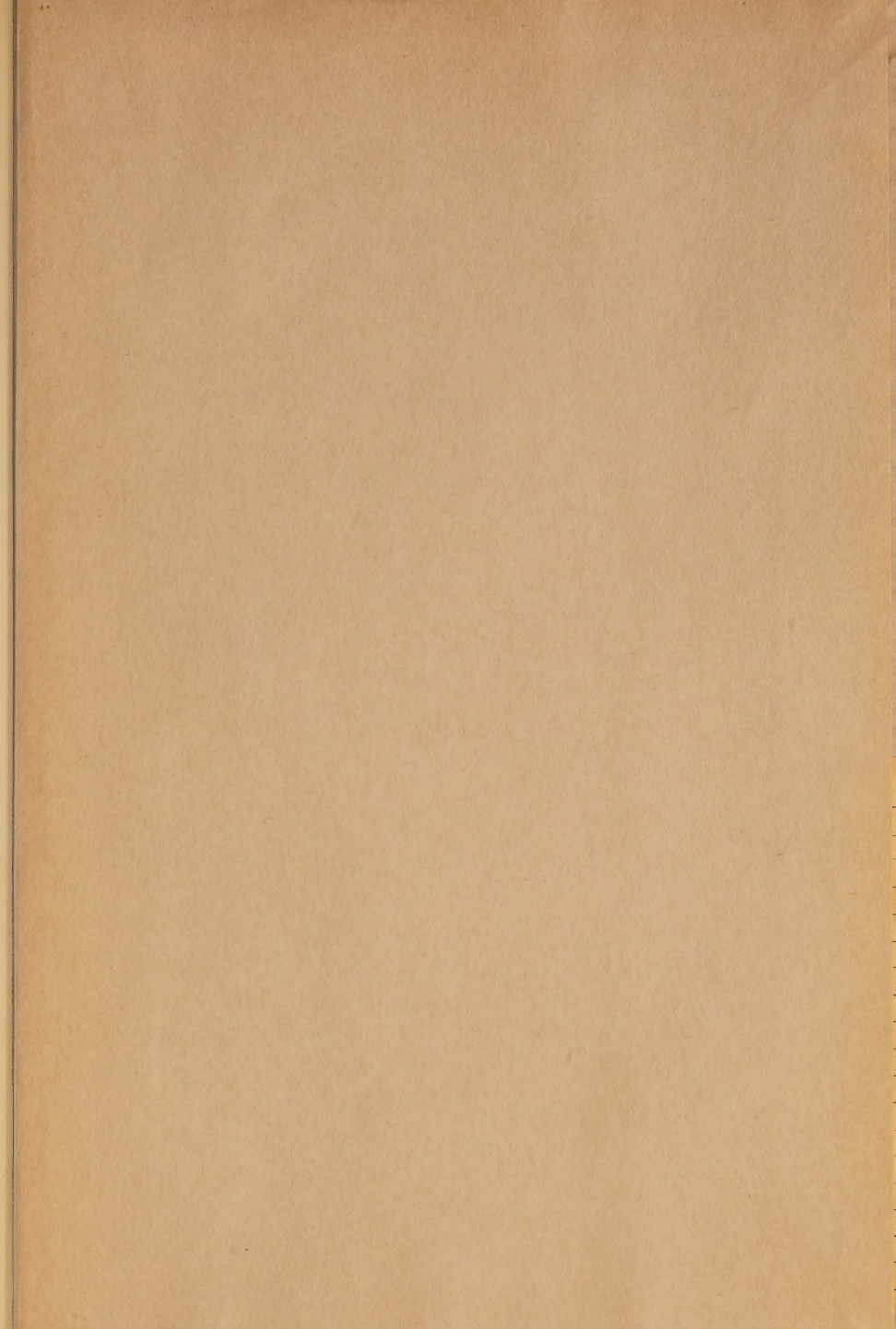
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